50X1-HUM



FIRST CUTLINES OF A THEORY OF FOREIGN TRADE IN A COUNTRY WITH A PLANNED ECONOLY

(Case of trade exchanges in Poland)

I. How theory on foreign trade in countries with planned economies stand.

A complex and homogene theory of foreign trade in the socialist

Countries (with planned economies) is almost in existent

theoretical works of the East. This blank in the economic theory of socialism is not accidental; it is the result of manifold reasons.

1. Theoretical reasons - Karl Marx in writing has kapital made two omissions which are heavy with meaning: he conscientiously avoided including in his theory of value the modifications which could be brought to it by foreign trade and it is theory of reproduction and modifications which could be brought to it by technical progress.

Moreover, it is stricking that Marx, for whom the economic theory of David Ricardo was a source of inspiration (theory of value) at the same time being an object for criticism (theory of salary and theory of rent), never took any position with regard to the theory of foreign trade (and especially the theory of comparative costs) formulated by Ricardo. It is not considered that the remarks made by Marx, the dropping of the rates of profit after supplying cheaper raw materials rove in this direction. See Karl Marx, Theorien uber den Mehrwert, and also Le Capital, Vol. III, ch. 6/1, or his remarks

Declassified in Part - Sanitized Copy Approved for Release 2011/11/16 : CIA-RDP80T00246A060800560001-5

on the foreign exchange rate in England. See <u>Le Capital</u>, Vol. III, ch. 35; — the history of market capital, <u>Le Capital</u>, Vol. III, ch. 20.

-- 4 ---

However it was a question, as experience of the past century since the first edition of In Gapital has shown, of the most dynamic factors. Moreover Marx certainly understood the possibilities but he was treating technical paragraphs retrospectively when he analyzed the substitution of machines for manual labor; he was also treating foreign trade when he considered the relationship of forces between the main industrial countries of Europe in the 19th century without resorting to an analysis of the mechanism of exchanges between them. Marx's theory, such as the Soviet revolutionaries inherited, in 1917, included neither technical progress nor foreign trade. Nevertheless to the extent that the newly created country was obliged to forge its own economic policy these two factors must have been grant and developed. Without analyzing it in depth, Lenin had to reintergrate the technical progress factor in practice de inici economic theory; he emphasized its importance within the broad outline of plans for electrafication, industrialization of the country and increase of the productivity of labor.

Thereform does not consider here that his work was exclusively on the monetary aspect of exchanges with abroad - e.g. his article on gold - , this attention pertaining to the monetary aspect of exchanges constitutes a direct extrapolation of Marx's thought which, being concerned with the intrinsic interplay of economic facts in the domain of foreign trade, remained on the surface of things, retaining only their

monetary aspects, efficient (See Lenin's remarks on the role of banking in "Imperialism, the Crowning Stage of Capitalism"; and on the role of gold in trade in "The Importance of Gold now and after the Victory of Socialism".)

___ 6 ___

particularly when he put forth the broad outlines of his plans for trade exchanges for the rest of the world. One need not refrain from thinking that this perhaps determined the ultimate stagnation of theoretical first regarding foreign trade. Stalin in effect remained direct heir to Lenin's thought and was the grave digger for all which had the slightest connection with Trotsky; under his initiative Soviet theoreticans and practicious lent their efforts toward the study of domestic production and the problems related to it.

This thought trend has been followed up in all the countries with a planned economy and in the years 1945-1955 one can advance that there were few, if any at all, original economic ideas on foreign trade coming out of the framework of economic theory elaborated in the USSR.

2. Political Reasons

 Λ

The ensemble of international economic relations was in itself highly favorable for the creation of a valuable economic theory for foreign trade in the countries with a planned economy. Before the Second World War, USSR exchanges with the rest of the world were always invested with a clearly political character. The theoriciens and even praticiens of foreign trade were not able to think of the existance of exchanges with the outside on a strictly economic basis (said otherwise, on the basis of pure rentibility and comparative advantage) in other conclusions they do about the relations of foreign

countries with the USSR tried to prove that these relations were founded on intervention (scient the industrial power of the USSR), discrimination (economic blockade) and attempts to release the economic crisis which raged in the West (exports of surplus unsaleable on the domestic markets).

It is obvious that political conclusions of this nature did not allow forming theoretical thought open to generalizing the phenomenon of foreign trade, with Marx's eyes, applicable to the planned economy and taking place among countries having different economic systems. The other European countries of the East suffered the same limitations of thought, all the more since their economic relations with the world were completely distorted by policy: On the one hand, relations dominated by the USSR, and on the other hand relations dominated by the cold war during and after the Korean conflict.

3. Economic Reasons

Also a certain number of economic reasons oppose the working out of a theory for forcir trade in countries with a planned economy.

It seemed at first sight that the combination of the theory of value based on labor and the principle of industrialization were only possible within the framework of a closed economy. However, the heory of logically and include poses the necessity and the rationality of international division of labor which itself leads the justification of the theory of comparative costs.

This was not compatible with trends of national selfwas lighing
sufficiency toward which the economic policy of the USSR name before
and after the Second World War; the economic policies of countries

gravitation
with planned economy went the same way, graving twendthe Soviet orbit
in the years 1947-1955. On the other hand, a voluntary approach
toward the law of value has in addition induced the departure of the
price of products from their real value. The initial departure has
already provoked the violation of the Market interpretation of
this law which says that value is the equivalent of the quantity

50X1-HUM

of labelar necessary socially for certain social average of quantity.

Now, the social average, to be scientifically justified, cannot be limited to a geographic region or to a collection of technical factors of production. In this century animated by appearing and disappearing shores

represents non-conjectural data, statistically unwarrented. A collection of technical factors of production can be distinguished clearly by its effectiveness with another collection, close that separated by the border, the customs people and a political regime.

Nevertheless taken as a basis of prices, value has been limited by geographic borders and by the state of technical factors, the two being far from the plurinational or world-wide average. This has constituted the first stage of departure from value; the second was the fixation of prices in terms of the current needs of economic policy -- most often to adapt them to the incompatibilities caused by this policy. The result was that the structure of prices in countries with a planned economy had no relation to that of the countries in the west. This state of things rendered impossible the elaboration of a theory of foreign trade inasmuch as the problem of prices and value had not been solved. The problem remaining untouched and untouchable for many years, the theory of foreign trade could not be formed in the void. Furthermore the principle of industrialization has transformed foreign trade into a safety valve associated with the economic system and designed uniquely to equilibrate the material balances of production. Priority imports

entered the balances to fulfill production needs (especially by virtue of furnishing investment assets and raw materials which could be produced at a given moment on the interior of the country; the exports were provided for namely to pay for the imports. Thus these economic reasons themselves prevented the working out of a theory for foreign trade in the country, with a planned economy.

lack of statistic material. It is a curious thing that statistical data relative to foreign trade, in spite of its international character, kept secret and often economists of these countries were forced to have recourse to the documentation of the United Nations or of the economic commission for Europe for data concerning their own country due to the lack of national documentation.

II And of the period of non-inclusion of foreign trade and economic h

where

Such a period with the necessity for theory of foreign trade was constantly neglected could not last. The evolution of general conditions sweeping away this state of affairs was first produced in the political domain. Stalin's death put an end to the extrapolation made by economic theory of a single plan with all of the Marxist heritage — that of production. The events of 1956 put an end on their own part to economic relations contained between the USSR and the other country with a planned economy and furthermore opened the way to more extensive economic relations between these countries and the so-called capitalist countries.

__ ll __

The economic sub-strata themselves have changed also. The accelerated industrialization process being virtually completed in most of the countries for the planned economy, it was important to find a new place for foreign trade in the future. To be sure, foreign trade could not constitute an independent factor which would be contrary to thca principle of an integral planning and a higher goal of the socialist economy (considered insofar as the fundamental economic law for social formation). Theory and economic practice have only oriented their position in another direction, abandoning extensive effort (maximization of goals) for the benefit of intensive effort (minimization of means). The problem of effectiveness was posed from that time onward. But the efficiency of production (and the effectiveness of investments considered as means) could not dispense with foreign trade, seen this time not as a supplementary tool designed for the completion of the goal to be attained, but as one of the means whose effectiveness could have been compared with the effectiveness of other.

However just as the Renaissance of the theory of foreign trade in a planned economy was made possible, the surrounding conditions had changed fundamentally in comparison with the level of departure of these countries. The creation of complex industries has instigated a reversal creation of the material balances of the country: surplus balances of raw materials during the beginnings of industrialization have given place to deficits balances; in like fashion, the deficit balances of capital investment gave place to surplus balances.

This has not been without influencing the structure of foreign trade.

At the same time the world market broke up into a certain number of very clearly defined groups of countries. Furthermore, the homogenicity of each group has been strengthened by different facts, that of the large industrialized capitalist countries by the creation of customs and political unions, that of the group of underdeveloped countries by the choice of industrialization for some, "natural or genetic" development for others, neutrality for some and a leaning toward a specific political and economic group for others.

Thus the problem is raised for the countries with a planned economy and it is important to create a theory of foreign trade.

Has this theory been created? One can find no trace of it in any theoretical economic publication. So it is theoretically inexistent; the practice of foreign trade is none the less guided by certain more and more coherent theoretical principles. One is then tempted to reconstruct the theory for foreign trade basing it on practice, by means of influence (in order to end up with particular propositions) and by means of influence (in order to end up with general propositions).

The example chosen will be Polish foreign trade. The Polish case, that of its foreign trade being lected halfway between that of the highly industrialized countries of Czechoslovakia and East Germany (whose exchanges, by structure, belong to those of the industrialized countries in the west) and that of the lected industrialized countries such as Bulgaria and Rumania (with exchanges of the same kind as those

in the underdeveloped countries). An economy built on coal and the first Poland strongly felt the effects of Russian domination, with Polish foreign trade coming subsequently under the influence of transformations during the industrialization of the country -- this the being the basis of the Polish foreign trade -- must illustrate a case and allow drawing a lesson from it for the countries which are also trying to formulate a theory of foreign trade.

III. Foreign trade and national production

If an equation were established where foreign trade (in value and/or in ________) figured as a dependent variable, the role of the determinent of this equation certainly would have been played by the domestic production of the country and the supply and demand on the interior and outside the country would have constituted the limiting conditions in it. (The problem will be treated in the chapter on "optimation" of foreign trade.) It remains that foreign trade exerts from its beginning (in the countries endowed with a weak degree of economic institutionalism or state economic control ["dirigisme"]) or after a certain time (in the countries practicing state interventionism or a planned economy) a "feedback" effect (return impact) influencing production in turn but the connection between these two factors, whether it be a simple linear equation (unilateral) or a cybernetic linear equation (reciprocal), is beyond doubt.

SECRET

However the nature of this connection is not clear. For many decades, traditional economic analysis linked the end products subject to foreign exchanges to final production (or industrial consumption), which furnished or absorbed these products. All influence exerted by the final producers (= exporters, both placed at the end of the chain of production) or by the initial consumers (= importers, both placed at the beginning of the industrial consumption chain) on the other producers and consumers would return to the framework of play between the multiplier and the accelerator (secondary, tertiary effects...), a simple and convenient denomination.

1. The relations brought to light by import-export matrixes.

Such an analysis was far from being exact. The introduction of matrixes in numerical economic studies marked the beginning of a more precise analysis. Wassily Leontief was the first to use matrixes for the study of foreign trade and the results of his analysis, read before the American Philosophical Society in Philadelphia on 24 April 1953, have has given place to the formation of a "paradox" consisting of the participation of the United States in the international division of labor based on a specialization in labor-intensive and non-capital-intensive production, which implies an economy of capital and the export of surplus manpower.

To study the case of foreign trade-production connections in Poland, recourse to the intersectorial flows of input-output is necessary.

15

50X1-HUM

the value of imports used in the process of production $\frac{M}{n}$ and the indirect taxes charged, T_{i} .

Let us call \mathbf{q} ,m , and t the corresponding quantities by unit of production; from this

$$q_i = \frac{Q_i}{Q_i}; m_i = \frac{M_i}{Q_i}; t_i = \frac{T_i}{Q_i}$$

By inverting the matrix of origin A of input-output coefficients,

we get the matrix (I-A) whose element p corresponds to the

total production of the sector i required by full production of the sector j. The accrued costs corresponding to this unit of production

then given by:

$$\bar{m}_{j} = \sum_{i} m_{i} p_{i}$$
 for the value of imports required

$$\bar{t}_j = \sum_{i} t_{i} p_{ij}$$
 for the title of indirect taxes

Let us call Y the goods services produced by sector j and contained in the component Y of the final demand Y. The structure of accrued costs of the component Y is given by

$$\overline{Q}_{ih} = \sum_{j} \overline{q}_{ij} \ Y_{jh} \quad \text{for the value} \quad \text{added by sectori;}$$

$$\overline{T}_{h} = \sum_{j} \overline{m}_{j} \ Y_{jh} \quad \text{for the value of the o's}$$

$$\overline{T}_{h} = \sum_{j} \overline{t}_{j} \quad Y_{jh} \quad \text{for the total of indirect taxes}$$

C. "



Beginning of footnote which runs from here to the top of p. 18.

In algebraic terms, the method applied can be formulated in the following manner: the input-output table gives for each sector i, the value of the total procustion in market prices, O_1 , the added value corresponding to the cost of the factors, Q_1 ,

[See table on p. 11]

The inversion of various matrixes A was carried out by a method of successive approximation founded on the identity

(I-A) -1 = (A) (I-A) -1 / I,

applied to a rough approximation of the inverted matrix (I-A) estimated directly. [End of footnote]

The tax on the turnover has deliberately been deducted in order to come closeff to the cost of production. The turnover tax want weights the cost of production expecially in light industry (textiles, clothes, shoes) which furnish a good part of the national accumulation of aggregate savings.

The participation of imports in the outputs of different branches shows a very acute dependence on certain branches of production and on deliveries originating from abroad.

Thus, more than the average:

- in heavy industry: steel metallurgy, metallurgy of nonferrous metals, the chemical industry;
- in the industry of consumer goods: the textile industry, the clothes industry, the leather industry.

It is obvious that imports enter production in the form of raw materials and capital goods. The column showing the share of imports in material costs (cost of manpower and indirect costs being excluded from the aggregate value) shows that the share of imports in these places sometimes reaches half for certain branches.

Two types of imports act on consumption and investments:
- manufactured products (machines and consumer goods)

- semi-finished products and basic materials meant to be converted.

The role of manufactured products is relatively easy to establish.

Detween the final demand and production, and one must deduct the quantities used for goals of production planned for exporting. One will thus obtain the element utilization of imports for consumption and investment and the imported finished products will be added to the imports. The following table shows the share of imports in the foreign demand for Poland and for the countries of the Delicate, deduction of the services which are non-productive (in value) having been made.

Elements of the final demand	Poland (1957)	Countries of the O.E.E.C(1953)
Consumption	12.3	15.4
Accumulation (saving)	12.0	10.6
Exports	11.8	15.7

In Western Europe, imports play a greater role in consumption and exports; in Poland, in savings. Such a difference is very clear and it synthesizes the differences created by the external factors (imports) with regard to the process of industrialization (savings equals investments $\frac{1}{2}$ stocks) in the industrialized countries. It is obvious that the share of imports in savings would have been more important

at the beginning of the period of industrialization.

The share of exports in the production of different industrial branches in Poland is presented as follows:

[Refer to table on page 14 of original document]

One will notice a heavy share of production assigned for exporting in the production of

- combustibles - One notices here the increase of indirect exports; they can be understood only thanks to the matrixes, since they are used in other brances and exported as the final product. The indirect exports were on the order of 18% in the export of combustibles in 1956 and already were 26% in 1958. Altogether, exports of coal (direct and indirect) in 1957 comprised 35.6% of the net aggregate production, of coke 27.8% and of lignite 66%.
- Metallurgy of non-ferrous metals - Here, the the role is sustained by zinc, 70% of the production is exported.
- Steel metallurgy - The indirect exports reached 41% in 1956 and 51% in 1958 of the total exports.

Two kinds of comparisons can throw additional light on the role of exports in Polish production.

The first will be of a static nature -- comparison will be made between the participation of Polish exports(the cost of the factors) in the production of various branches of industry and the same participation in the industrialized countries of Western Europe (the data treated statistically and made comparable).

[Refer to table on page 16 of original document]

One deduces from the table that for coal mining only the percf centage of participation Polish exports in production is at the same level or surpasses the participation of Western exports in their total mining production. In metallurgy and mechanized industries the percentage is already significant and under the European level; in the other industries the differences are still clear ex.

The second comparison will be the dynamic nature: the point is to find the relation between the increase of production and the increase of exports from Poland and in the Western countries. The data is presented in the following table:

Share of Exports in the Growth of Production and Imports in the Years 1950 - 1955 in Percentage (Poland 1955-1958)

[Refer to page 17 in original document]

As can be seen, the exports participated only lightly in the growth of Polish production in comparison with the other countries. The play of a few factors can explain this.

- The delay of the theory and practice of Polish foreign trade in relation to the theory and practice of industrialization,
- Orientation of the "inward-looking" kind on the part of Polish economy. This orientation, in our opinion, can exist in a closed economy as well as an open economy. It depends especially on a certain mentality on the part of the individuals participating in the productive process, whether the tender or the employees;

- The lower Polish technical level as compared to Western European countries. By "technical level" not only the level of technical designs or technological execution of products is meant, but also the level of efficiency of the apparatus for foreign trade -- survey, advertising, sales service, etc.
- The concentration of exports in the industries in which the value of the product is less (industry of combustibles, metallurgy of non-ferrous metals) than in the export industries of Western Europe (chemical industry, industry of consumer products with industrial origin).

The input-output matrixes can also be useful for another study, that of the share of exported production in the cost of production. The problem can be examined from two different angles:

1. What percentage of each component of the total product is exported abroad is to be seen first. To facilitate a more extensive analysis, the total product will be divided according to the two great sources of

formation: the industry and the other branches of the national economy; the two combined figure in the column of total material production.

[Refer to page 19 of the original document]

The data furnished by the above table is rather significant, es
Amortization,

pecially under the two entries of salaries and depreciation. They show

that a total of 12.3 % of the labor expended in the country was exported

amortization

in 1957 and that 13.5% of all the depreciation is due to the exports

the value of

[i.e. -- 13.5% of all the means of production -- industrial buildings,

machines, etc. - in relucionalis for exports].

2. To complete the preceding Table which is set up for horizontal analysis (the percentages may be totalled vertically), the table below will be presented comparing the structure of total production in industry (by elements) and the structure of exported production(by elements).

[Refer to table on page 20]

The share of salaries and depreciation is greater in the structure of the costs of production exported than in that of industrial production taken as a whole. This is certainly explained by the fact that the manpower used in the exported production is more expensive better paid; the standards of quality are stricter and as a matter of fact, the ratio of quantity of manpower exported per unit for the domestic market is greater than that per unit assence for the domestic market market.

The same ratios exists for . Exported production is produced on more expensive machines since they are more modern. These differences are found again inverted under the headings "results" and "taxes". These taxes on exported production are less than on the total production (which moreover is normal for all the countries, and recoverable through the taxes established on imports received in exchange) and the account for industrial production to be exported is balanced by loss, contrary to the economic results registered for the total industrial production. These conclusions, drawn from the analysis of input-output matrixes must, in order to be more extensive, be completed by an analysis of the structure of foreign trade in view of the fact that the share of exported production is not equal in all branches of the national economy.

b. Foreign Trade and Technical Progress

An effort is being made to discern the main points of the influence of foreign trade on technical progress in three fields:

- in exports; the demands of the buyers (importers outside of the country) compel the producers (inside the country) to equal the average world level (in conditions of minimum demand) or a higher world level (in conditions of extreme demand).

- in imports: in principle one tries to import materialized technical and progress in the form of modern capital goods / aesthetic and functional consumer goods (i.e. liable to correspond in the most effective manner with the practical needs of the population).

- in domestic production: in principle domestic production is apt to imitate foreign technical progress (being based on the imitation of imported products for export needs) and to substitute its products for imported products (expensive products) in case of a deficit balance of payments.

In the countries with a planned economy, these trends are very existed. Up to 1956 the connection between world technical progress and domestic production was assured by commercial agents. The transference was ineffective and inadequate. Since 1956 they are assisted in this task by the technicians of industry who pass on the demands of the foreign buyers, trying at the same time to observe the methods and the designs in the importer-countries and those of competition with and select the most modern products in of importing.

Furthermore, the stepped up development of chemical industries begun in the years 1956-1958 in the industrialized countries of the East furnishes a basis for substitutions of imported raw materials.

These trends can be summarized in the following way: if one claims that technical progress is leading, in the end, to an increase of the productivity of labor, the exchanges which rely on technical progress will attempt to become oriented toward the products where the profits of productivity are highest. Very likely this will happen in the case where the domestic level of technical progress with catching up most rapidly with the world level.

For the countries in the East this demand belongs essentially

to the industry with machines. The Polish example proves it in a clear manner:

[Please refer to page 23 for a table]

As regards substitution, the trends can be presented as follows: domestic production will be oriented toward production which, based on raw materials of local origin, will be able to replace the importing of products the country lacks.

For Poland, which suffers a deficit of raw materials, the chemical industries certainly plans an important role. Its role as producer of substitution goods clearly stands out in anticipation of the above as the following calculations show: [refer to page 24]

c. Foreign Trade and Investments

It suffices to break down investments (I) made in the country into two components: I_i (investments in commodities produced domestically) and I_m (investments in imported commodities); and one is in a position to develop as many equations for the relationships between investment and foreign trade as there presently exists for investments (taken as a whole) by introducing these two components everywhere.

This development seems to us superfluous here. Our classification Considered from of investments is made a different angle; we separate them into:

- investments in exporting industries (leading to:
- 1. a change in the structure of exports;
- 2. an increase of export returns by increasing the volume of pro-

duction exported;

- 3. maintenance of the export structure;
- investments in the industries which produce for the domestic market;
- investments in the industries which prompt an increase in the consumption of imported goods originating abroad or goods previously as They were provided as before being exported abroad.

In the point of view of foreign trade, the first kind of investments offers the most interest. On its orientation depends the degree of "capital-intensity" [intensection capitalistique] of exports which - transformed - takes the form of the Dn

where I=investments
D: not;
the export revenue (in currency).

As will be shown later, this formula represents the point of departure for the final formula since the sizing the effectiveness of foreign trade. But the problem of the volume of investments required per unit of export revenue cannot be solved without recourse to the capital.

matrix input-output calculations. Indeed, the degree of Intensity must be evaluated the length of the intersectorial chain of production down to the last link from where the final product for exporting comes out. Investments thus established will have a collective value, i.e. lumping together the fixed capital assets in all the industries cooperating in the manufacture of the given product.

It is obvious that consideration of the investments singly by

to

unit of revenue would not suffice of throw complete light on the role

of investments in the structure of foreign trade. In order to complete the table the ratio must be established for the returns on exporting each product in relation to the returns on exporting all of the products (i.e. - the relative position of the product in the export returns).

One takes as a collective unit of total revenue one million units of currency (one million zlotys=one million rubles=\$250,000).

Having calculated the volume of investments by unit of revenue the ratio of revenue in the total revenue, one can easily get the stabilized value of the investments for each product. Thus one will be in a position to draw conclusions bearing on the substitution of products for which the investments to be made are not a dependent variable of the returns but really a function of the efficiency of the process of production or of abstraction of the product. The results obtained are found in the table which follows. In this table the structure of exports for 1959, the last year for which the statistical data was available, has been calculated and for 1965, the final year of the Five-Year Plan, in order then to proceed to a dynamic analysis.

[Refer to page 27 for a "capital-intensity" table]

The results of these calculations are rather striking. One can logically held to think that the export of capital goods involves and voluminous investments per unit of revenue, the reverse for textile exports. These calculations prove otherwise. The export of products located on the top of the table and which bring in 2-3 percent of

export revenue require equal investments with those carried out in the branches where one can expect 25-30 percent returns coming from exports (bottom of the table).

Such a dispersal of the effect of investments is highly discernable without economic numerical calculations and the use of modern tools of analysis (such as the input-output matrixes).

shares in the dynamics structural change of Polish exports. One will study the same indices of investments necessary for obtaining a unit growth fund of export returns in relation to the entire fund of export returns in relation to the entire fund one will affirm that this increase of the total of the products is 100,000 units (in the case examined - 100,000 rubles or 100,000 plotys). The division of this sum between exported products thus reflects the structure of the grows of returns and the balanced investments furnish the comparison of the effectiveness (or of capital-intensity) in dynamics.

The effects of investment is observable in dynamics. For the period 1959-1965 the greatest growth exports of complete industrial installations which are one of the weakest coefficients of investment per unit of returns. But then come the returns due to the increase of sugar exports which have the lowest coefficients of investment.

The analysis of these can be presented gradically:

[Refer to page 29, page 30 and page 31]

The broken line parallel to the abscissas represents the average capital-intensity. The numbers correspond to numbers the product in the tables.

The table for the projected period 1959-1965 can now be established.

[Refer to page 32 for the table]

To the first group alog the products 1-3

To the second group athe products 4-13

To the third group along the products 14-23

The conclusions one can draw from the above are as follows:

of departure

- In relation to the training structure (1959), the structure of returnal (which corresponds to the structure of the value of exports) shows an increasing participation of the products having a weak coefficient of capital-intensity (products 22-35 on the first two tables). These products share at the rate of 25% in the 1959 and that 35% in 1965.

Participation of the products having a strong coefficient of capital-intensity remains unchanged.

The first observation shows that there is a conscious effort toward lowering the capital-intensity of Polish exports.

The second observations shows that a part of the export structure remains recid. This is certainly due, on the one hand, to the structure of the demand on the part of the commercial partners of Poland (who prefer to import products with a weak degree of "labor-intensity"), i.e. to import capital in exchange for labor; on the other hand, this is due to the traditions (effects of habit) of Polish production (accustomed to producing products 1-20) and to Polish trade traditions (accustomed to selling the same product on the foreign market). These traditions are founded en production on the hand. These traditions are founded en production on the hand necessity of introducing technical progress into production; for trade on the man-necessity of discovering new markets.

The regidity of the structure can be broken by the plan based benuses for participants either on economic stimulants (premiums and bonsuces for participants in the production and sale of products 20-35) or on strictly defined imparitives (curbing of production-sale of products one-20, investments in the production of products 20-35)

em

Certainly this is considered, at least to a certain degree, in the plan for structural changes, graphic presentation of which is found on page 21 and the summing up in the table on page 32. The third group with the lowest coefficent of capital-intensity participates at the rate of 62.8% in the growth of returns. None the less it remains that the highest percentage of investments is made in the export production of group having the highest coefficient of capital intensity, which certainly still constitutes a (considering the weak contribution of foreign exchange-17.4in the growth). One is liable to think that such a diversion is dictated by the difficulties of the balance of payments.

III. Structure of Polish Foreign Trade

It has been shown in the analysis of the relations between linked foreign trade and production, the structure of exchanges is found, in an almost linear fashion to the structure of production with the exception of two factors introducing deviations in simple function: (or rather the ratio domestic technical progress

and the supply-demand of the foreign market. When we examine the aggregate structure of Polish foreign trade, it is very obvious that the process of industralization forged numerous relations between the four large groups of products:

- Machines and capital goods
- Manufactured consumer goods (of industrial origin). [Refers to pages 35 and 36 for tables.]

em

world average of technical

The relationship between these four large groups of products well a function , the general economic policy in each period. In a general way, the structural changes were for a country as such: on the way to industrial development (1945-1954; 1950-1955), moderately developed (1956-1960) and beyond reaching industrial development (1961-1965). structure of exchanges corresponded well in the first and second period to that of the underdeveloped countries on the way to industrial development (deficit balance of capital investgoods; surplus balance of raw materials and agricultural products); in the third period, to that of industralized but not 10.00 equipped countries (even balances) and in the fourth period to that of the highly industralized countries (surplus balance of investment goods; deficit balance of raw materials). Moreover all of the socialist countries have followed the same process although the differences in the rhythm of this trend are considerable. (.The process was being developed more rapidly in Czechoslovakia, East Germany the connection between foreign trade and economic and Hungary development is closer; it was somewhat more drawn out in the USSR which developed in an autarkic way before world war II isolated from world torms and exchanges.; [Refer to page 38]

In order to study these similar stages with more extensively, they will be examined at the level of each of the four groups of products.

A Raw Materials

Coal retains a choice position in Polish exports. For a long

period one could even term Polish experts as being of one nature exclusively since the direct exports of coal surpassed 40% of the production. Furthermore, the part coal played in the exported production enormous of other industrial branches was. A, especially in metallurgy and in the chemical industry. Starting 1957 the prices and demand for coal on the world market suffered continuous drop offs. This undermined the balance sheet of Polish foreign trade, but being produced at a final stage of industrial development had no crushing influences which could have appeared in the course of the stage forced industrialization when the deliveries of machines necessary for industralization depended largely on coal exports. (Refer to page 40).

The essembly line of coal exports will be embassed by the surplusses of structual balances in the other groups of products. In addition, the increase of the capacity of transformation by embassies using coal in the material imports (such as combustible or raw materials) must lead to an increase of indirect coal exports. Thus, indirect coal exports (in relation to the total of exported coal) reached 25.8% in 1954, 44.3% in 1959 and ought to reach 63.4% in 1975 which implies a characteristically qualitative transformation of the country which is becoming industralized.

 \sqrt{R} efer to table on page 417

The & coal example is very instructive for the countries becoming developed which must rely on a single resource or product for exporting

in the first stages of industralization. In order to make this means of stablizing the balance of payments more adaptable to the structure have of the countries which already to reached a certain degree of industralization, it was necessary to transform even on the domestic level of the country and first to export in the form of semi-finished products (liminated products for example) and then in the form of finished products (running the gamut of chemical products).

This possibility is certainly more limited for the country which exports agricultural products, tropical fruits for example. For this reason the economic development of these countries must depend tomorrow.

on the policy of gifts and non-repayable aid, while the development of those exporting raw materials with a more ready demand (enterprine) has former and materials with a more ready demand (enterprine) and the policy of gifts and non-repayable aid, while the development of those exporting raw materials with a more ready demand (enterprine) and the policy of gifts and non-repayable aid, while the development of those exporting raw materials with a more ready demand (enterprine) and the policy of gifts and non-repayable aid, while the development of those exporting raw materials with a more ready demand (enterprine) and the policy of gifts and non-repayable aid, while the development of those exporting raw materials with a more ready demand (enterprine) and the policy of gifts and non-repayable aid, while the development of those exporting raw materials with a more ready demand (enterprine) and the policy of gifts and non-repayable aid, while the development of the policy of gifts are possible aid, while the development of the policy of gifts are possible aid, while the development of the policy of gifts are possible aid, while the development of the policy of gifts are possible aid, while the development of the policy of gifts are possible aid, while the development of the policy of gifts are possible aid, while the development of the policy of gifts are possible aid, while the development of the policy of gifts are possible aid, while the development of the policy of gifts are possible aid, while the development of the policy of gifts are possible aid, while the development of the policy of gifts are possible aid, while the development of the policy of gifts are possible aid, while the development of gifts are possible aid, while the development of gifts are possible aid, while the policy of gifts are possi

B. Machines and Equipment - Capital goods

The problem of exporting machines is far from being homogenizedseveral serious questions are posed at the very core of the problem.

One can tackle them by degrees.

The total exports of machines and equipment increases continually, as was shown in the structural balance sheets of foreign trade and as to by the data thousand proved with based directly on the export worth of the products:

[Refer to page 437]

Inspite of the fact that the trend for exports is very favorable, the international comparisons of equipment exports for Poland and the

فالمصابيا مأريا بالمريان

other countries still shows a week effort in this domain.

In Relation to the other socialist countries, Polish exports of capital countries that behind East Germany, Czechoslovakia and Hungary:

Refer again to page 437

It is true that the industrial potential of these three countries

(as well as staff personnel, cadres and technicans) was already very
great before world war II and that it was developed by the Reich during
the war for military ends. Nevertheless, such domestic competition
within the zone of member countries of the COMECON promoted specialization
in production and in trade exchanges which followed on the part of
countries already industralized. Poland also had the luck to work
cut the periods of industralization that we have called to the inside
"spontaneous" before the introduction of specialization of the inside
of the COMECON zone. The comparison of the exports of machine
equipment per inhabitant reveals still greater differences:

(Refer to page 44). It is certain that the light exporting of machines and equipment goods was due to industrial under-development.

The rate of exporting equipment was less than the general rate increase in during of exporting in the years of 1950-1954. In 1955-1960 a brusk increase of this rate was observable, being attributed to changes of a qualitative nature. In the years which follow this rate will slackened but always higher than it will also remain kighting the average rate of exports.

/ Refer to page 45

An accelerated rate of machine and equipment exporting can also be due to qualitative changes which are produced in the industry itself;

em

revealing:

- The increase of the productivity of manpower.
- The improvement of the capital output ratio which is due in part to the changes in productivity and in part to perfecting the means of production:

[Refer to page 45]

- The diversification production of equipment goods.

The structure of machines and equipment goods exporting was, in the beginning, concentrated to a such an axtent that in 1951 the exports of rolling stock comprised 83% of the exports in this group.

A certain diversification was introduced shortly after the appearance of ships and machine tools in the exports. These three kinds of production in themselves comprised the majority of the exports. Such a structure for exporting is not the best in view of the fact that these products belong by their technological nature to the category of "material-intensive" products and the effectiveness of their exporting parallels that of semi-finished products, especially when one considers that a high percentage of the ships used had to be imported from abroad and were estimated in the total worth (motors and equipment); in fact particularly heavy machine tools were exported (in 1959, the export of machine tools reached 8.9% of the total production estimated in units, but 23.6% of the same production estimated in physical quantity -- weight of machine tools). Trade understood on such a base is reduced roughly speaking to steel exchanges (plus a small quantity of manpower) exported by Poland against manpower (plus a small quantity of steel) imported by Poland. It is obvious that such a domestic exchange under the heading "capital goods" was not without influencing the terms of the exchange (the prices of labor-intensive machines rise more quickly) to being linked to salaries, and those of material-intensive machines which are linked to the prices of raw materials, as well as the balance of payments. Thus the value (in foreign exchange returns) of a ____ of rolling stock exported by Poland 1,791 zlotys (\$448) of rolling stock (in foreign exchange payments) whereas that of a

imported by Poland was 5,479 zlotys (\$1,370). The same disparity (more attenuated for the other headings)) existed in the whole structure of machine and equipment exchanges (data for the year 1958).

Refer to page 477

x) A calculation identical to that which was made for the indirect exports of coal can be established for steel. It will demonstrate a very much greater disparity between the prices of steel imported indirectly (in relation to steel indirectly exported) than between the steel imported and exported directly:

Refer to page 487

The price of a ton of steel exported indirectly is only 5.8

times higher than the price of a ton of steel in direct exporting.

In England this ratio is 9.5 times, in West Germany 9.25 times. And,

in another , the price of a ton of steel in indirect imports

is two times higher in Poland than the price of a ton indirectly

exported, while in Germany it is only 30% higher. These ratios act

very unfavorably on the terms of exchange. (The terms imports and

indirect exports mean here the imports and the exports of capable

goods and machines. In indirect exports, estimated according

to the weight of steel, rolling stock shares at the rate of 33% and

ships at the rate of 24.4%.)

A Rational solution thus compells recognition namely to change the structure of exports in machines and equipment goods by whole introducing products the high level of transformation causes the

value of exports to rise.

If One takes the value of a ton of metallurgical products for a starting index of 100,

The indices of value for a term of capital goods according to the degree of transformation present themselves as follows:

Metallurgical Products	100
Metallic Constructions	200-400
Boilers	500
Construction Machines	700
Ball Bearings	2800-19000
Universal Machine Tools	13,000
Machines tools of precision and automation	1,800-4,000
For the production of light concretes	600
Refinery factories of sugar	700
Factories for heavy machine tools	1,400

The complete industrial installations selected by Polish exporters as a product of average transformation, designated to replace in uneffective exports, among the easiest to produce. In the development of machine and equipment exports originating from Poland, there is anticipation of the relative diminuation of exports in ships, rolling stock, and machine tools and a relative increase of exports, of complete industrial installations and other machines which entails comparatively weak investment expenses as was demonstrated on page

 \sqrt{R} efer to table on page 507

C Agricultural Products and Food Stuffs

The export of agricultural products and food stuffs was part of the line of Polish foreign trade before World War II; these exports rose then to 35% of the total, during the post war period they were influenced by three factors inherent in the economic growth of the country, namely:

- The agricultural policy of the government and the behavior of the rural population in regard to the socialization of agriculture;
- The industrialization and the massive migration of the rural population to the industrial centers;
- The increase of buying power and the possibilities for the domestic market to absorb agricultural products.

The agricultural policy of the government in the years 1948-1956, based on the principle of obligatory deliveries of agricultural products with low prices by the peasants, on forced expropriations and the unification of the masses (creation of collective farms with a low output) produced economic unbalance on the agricultural market (in the relm of prices, through the inefficiency of agricultural production) and social unbalance in the rural world (hostility of the peasants in regard to governmental policy). In 1956 an effort was made to remedy the drawbacks arising from this situation.

- The process of industrialization instigated the flow of rural youth to the cities. In large part as a means of suppressing the latent unemployment in rural regions, the process led to the polarization and maintainance of energetic capable manpower in industry and conservative and ageing manpower throughout the countryside.

This prevented, among other things, the introduction of modern agricultural methods to the villages.

Rural manpower being ple-ntiful in industrial centers has changed from an auto-consumer element (outside of the market)

agricultural products (for the market) into a element buying agricultural products (from the market). In order to maintain the balance, even though not real, it was necessary to increase the volume of agricultural products delivered to the market two units; the volume of agricultural products previously produced by the who abandon agricultury and the volume of agricultural products bought by the new consumers (instead of auto-consumption). One must add a third unit, namely the volume of agricultural products bought by industrial manpower thanks to the increase of its buying power (it is to be noted that Engel's law is not in question here and the consumption of agricultural products and food stuffs is not yet

The satisfaction of these needs could be accomplished by various means; by the expansion of agricultural production (which has not been done in view of the circumstances described above); by the reduction of exports and imports of agricultural products (the two methods have been effectively applied by the government); by raising prices (a policy also practiced), by rationing (practiced for short period), etc.

of these different causes and measures, exporting has diminished considerably.

It was, in fact, possible to increase exports in food stuffs as the following table shows:

Refer to table on top of page 537

The trend of exporting agricultural products, clearly increasing up to 1960 for products originating from animals, must then give place to an increase of vegetable exports:

Refer to table on bottom of 537

This is explained by the trend towards substituting for exports of certain vegetable products, up to now exported in the form of raw materials, exports of the same products transformed into finished or semi-finished products. The same trend is found again as that previously observed in the case of the two large groups of products analyzed before.

Refer to table on top of page 547

D Finished Products of Industrial Origin

The difference between the structure of Polish exports in that of the advanced industrial countries of Western Europe now consists mainly in light exporting of finished products with industrial origin -- which equal only 5.0% of the total for exports,

in the countries of Western Europe. 35-40%. Apart from the reasons already cited, namely the inadequate level of technique for industrial design (which, however, are essential elements for making the finished products salable on the world market), one must take into consideration here another important element, mainly that the exported production of finished products depends in a large measure on the initiative of private producers, and not on the general initiative (or generalized) of the state, as if the case for the other groups.

The necessity of private economic stimulants is thus indispensable.

A seen debated for a long time and different methods of payment have been suggested: export funds, export premiums, the possibility of returning part of the returns (in foreign currency) for personal purchases, ect. We consider that without an effective system of economic stimulants exports of these products will have only weak chances to increase. As regards state initiative in the sector, two points are worthy of being mentioned: one based on reality, energies wither on possibility.

The first point - reality - rests on the existance of an agreement which was concluded between socialists states providing for the exchanges of superfluous stocks of finished consumer products

of industrial origin. Since takes of for second continued these products) several years have continued to increase throughout all the countries with a planted economy, the agreement introduces a

kind of institutional forwarding or despatching which links together the circuts of domestic commerce in the socialist countries.

The second point -a possibilities - in perspective rests on the development of the chemical industry which for the intensification of exchanges of this group, can play a role of this world to that played in the intensification of exports in capital goods for the development of the machine industry. The chemical industry in Poland is arranged on four large baris of raw materials:

- 1. For non organic exports and the nitrite industry (nitrogen base)
 - fossil salt -
 - calcite
 - sulphur
 - barytes
 - 2. For exports of products derived from coal.
 - Tar
 - densol beneat
 - 3. For exports of products of chemical synthetics
 - netural gas
 - 4. For exports of products of interior chemistry:
- refined petroleum with a basis of emported crude petroleum (refinery under construction with a capacity of 6 million tons).

The development of the chemical industry gives a strong impuise to exports of chemical products whose increase is surpassing the average rate of exports increase.

[Refer to page 56]

The balance sheet of chemical exports, which has been showing a large deficit, has been deminishing considerably in the years 1957-1960 (the ratio between exports and imports improving from 1:59 to 1:3.4) and is going to continue in the years 1961-65 (the ratio demonishing to 1:2.5).

[Refer to page 57 for table]

The geographic structure of trade
The geographic structure of Polish foreign trade in the last

years has been marked by very great ability. The division of exchanges
between socialist and capitalist countries for a rather long time

period has been 60:40.

One can explain this by the fact that there has been a period of relative stability in international policy but one cannot explain it if one considers the fact the geographics structure of exchanges linked as much to the structure by products as to the structure of domestic production to which is lined the structure of products.

If we were asked to present approximate the general concept of foreign trade throughout the world, we would attempt to present it as follows:

[Refer to page 59]

From such a presentation two main conclusions can be drawn:

a) Foreign trade is often analyzed by its military aspect. Such a method leaves one to a large degree on the surface of the economic mechanism:

b) The connections between the four "clauses" or "divisions" which

correspond to four stages of analysis foreign trade (structure of production, structure of exchanges by product, geographical structure, monetary are different in the three economic systems.

In the capitalist system the connection is circular, based on description the feed back, i. e. the structure of production the structure of exchanges by products, the latter structure in turn the monetary the monetary the monetary of effects follow, but it is effects (terms of exchange, migration of foreign capital, balance of payment) which in their term influence the structure of production by means of the triangle of price: profit:

In the socialist system the connection is linear, the structure of production influences the structure of exchanges, the latter decides geographical structure (if one does not account for political influences) and monetary come in last place constituting the last link in the connection, without giving place to reciprocal influences.

In the underdeveloped countries the order of connections is reversed. The geographical structure of exchanges (belonging to a monentary zone, of domination, circle of common political interests) decides at the same time the structure of exchanges by profits and monetary. The structure of exchanges influences in its the structure of production.

The Marifold conclusions one can draw from this diagram go beyond the frame work of our analysis. Returning to our subject, the

geographical structure of Polish foreign trade is presented as follows:
[Refer to page 61]

The concentration of exchanges thus is rather great. If in each group of exchanges one arranges the countries according to their order of participation in Polish trade with other countries, the following table results (calculations made for 1958):

[Refer to page 62]

The concentration inside the geographic zone of socialist countries reaches 77%, inside the zone of under developed countries - 48% for the three trade members in each zone, 56% inside the zone of the advanced capitalist countries. Such a concentration is rather strong, if for example one does not overlook the degree of concentration of exchanges inside the new customs zone in Europe, in which the industralized countries participate, which is less than that of Poland. Nevertheless if one compares a high degree of concentration in exchanges by all the underdeveloped countries, one is likely to think that Poland is found half way between some and halfway between others.

A. Trade with the Socialist Countries

Trade with the socialist countries has been influenced by various factors during the post war period. In general one can distinguish two groups of factors and in each group the principal factors are as follows:

1. Group of economic factors:
Possibility for importing industrial materials, possibility for developing a specialization in trade of equipment goods.

[Refer to the long list, page 63]

2. Collection of political factors: difficulties in trading with the rest of the world during the cold war period; effect of USSR domination especially in the years 1946-1955.

The two groups of factors are found combined in the decisions of the organization Council of Mutal Economic Aid, which will be called here COMECON.

It can be be served in regard to importing raw materials that a large part of them - those of vital importance - come out of socialist countries. Astructure of imports is presented as follows:

a. The reduction of participation is **Exercised** to the appearance of American credits and to the deliveries proceeding from them.

[Refer to page 64]

It is apparent that such geographical structure of imports in raw materials was not imperative. This nevertheless formed during the cold war and in some fashion has become inflexible. Moreover, in view of the fact that transportation and transfer costs play a large role in the purchase cost of raw materials, it must not be forgotten that all these deliveries come from the neighboring countries. It is certain that imports of the raw materials in question could be furnished by other countries. The problem of exhanges came up none the less. For a long period Poland used coal almost exclusively to pay for the capable of furnishing deliveries from abroad. The countries exclusively to pay for the materials desired (for example Iraq-gasoline; India, French West Africa, Morocco-iron ore; Egypt-cotton) did not have such a need to import

Czechoslovakia which exported to Poland in exchange for coal. Other large annual deliveries of Polish coal to the USSR had been anticipated according to an official contract fixing very low prices (reparations contract). The USSR, in exchange, delivered iron ore.

in Poland reaching a more developed stage of industralization, to the point where these equipment goods may become an extensive part of its exports, it is not to be denied that its geographic structure of importing raw materials will change to the benefit of importing those from the underdeveloped countries.

Nevertheless one can hold that in the near future the USSR will remain the most important furnisher of raw materials for the countries the C2 COMECON.

[Refer to page 65]

A completely different problem was posed by specialization on the inside of the COLUGON countries.

The new by-laws of the COMECON provide for vast economic specialization on the interior of the bloc. Let us quote from the most important articles:

"By-laws of the COMECON" (signed 14 December 1959 in Sofia, Bulgaria)

50X1-HUM

Article I - Goals of the council:

1. The Council of Mutual Economic Aid has as its objective to contribute, by means of liaison and the coordination of efforts of the member countries in the COMECON, to the planned development of the national economy, to the increase of economic and technical progress in the member countries, to the industrialization of the less industrialized countries, to the continued growth of the productivity of labor and to the constant growth of the well-being of the national inhabiting the member countries of the COMECON.

Article III - Functions of the council:

- In agreement with the goals and principles of the by-laws, the Council of Mutual Economic Aid
 - a) Organizers
 - Extensive economic, scientific and technical cooperation between the member countries to exploit in the most logical manner their natural resources and to accelerate the development of their productive forces;
 - The working out of recommendations in the domain of the most important economic relations which result in plans of economic development for the member countries, in view of coordinating these plans;

- The study of economic problems which concern the member countries;
- b) Cooperates with the member countries in the working out and the accomplishing of common action in:
 - The development of industry and agriculture in the member countries of the COMECON on the basis of international division of labor between socialist countries, as well as on the basis of specialization and cooperation in production;
 - The development of transportation in order to insure
 the possibility of carrying out the increasing
 transportation of goods which are the subject of
 international exchanges between member countries:
 - The most efficient utilization of investments made in the manufacture of industrial articles in which other member countries participate;
 - The development of sales in merchandise and services;
 - The exchange the fruits of scientific and technical progress in the domain of theoretical research and practical application.

The problem of specialization poses serious theoretical problems. One can generally distinguish two levels of specialization.

- International intersectorial specialization (exchanges of products from one sector for products from another sector):
- International intra-sectorial specialization (echanges of types of

products manufactured inside a sector and in a branch of it). The second specialization implies a rather high level of industrialization and is practiced in the exchanges between countries of Western Europe; the first specialization can take place in exchanges between countries having different levels of development and has been known since antiquity. The difficulty is the passage from the first to the second kind of specialization. The country which industrial izing in principle constructs an industry based on a high technical level corresponding approximately to that existing in the highly industrialized countries. In contrastin such a country the standard of living (and mainly the salaries in the sectors which are becoming industrialized) does not correspond to that of the highly industrialized countries. Therefore the machines produced in new sectors, for example, are rapidly becoming less expensive than imported machines. The first level of specialization loses force in this period but the second level has not yet been introduced. Such was the case in trade between Poland, on the one hand, and Czechoslovakia and East Germany on the other hand in the years 1955-1958. One can expect a situation of this kind in trade between crtain countries on the way to becoming industrialized and those countries already industrialized.

- 1. There exists the more or less close correlation between production costs (per unit) and the scale of production.
- 2. The elasticity of demand on the domestic market of state of the state of lowering production costs.

Refer to page 697

An efficient and advantageous specialization is conceivable only for long periods which presupposes the appearance of new capacities production, modern ones oriented toward international specialization.

It would be rather easy to establish the formula which would reflect the advantages originating from intersectorial specializations. Suppose that two countries A and B have the possibility producing goods 1 and 2 in order to satisfy domestic demand. In the framework of specialization, country A must produce product 1, country B, products 2, the two covering the whole demand (domestic demand of both countries).

The advantages shown by the ratio $E_{s} = \frac{A - S}{A} \cdots (1)$

A = production costs before specialization
S = costs of the same production after specialization

Production costs before specialization will be

$$E_c = e_1 P_1 = e_2 P_2 \dots (2)$$

where e_1 and e_2 = coefficients of production efficiency by unit

 P_1 and P_2 = products of goods 1 and 2

Thus one can establish the generalized formula of advantages arising from specialization:

coefficient of production efficiency for product 1 after specialization (to this is added the additional costs of transportation and of organizing the specialization)

 P_{1}^{\bullet} = volume of production 1 after specialization

 d_{γ} = price of exporting product 1

d₂ = price of importing product 2

e = average coefficient of export efficiency

What is meant here by coefficient of efficiency is the number of national monetary units necessary for spending on production going toward exporting with a view to obtaining a unit of foreign currency in export returns: the value E_S shows the percentage of profit which reflects the ratio between the advantages of specialization and production costs in a self sufficient economy. In the end profit will always be made over the costs of production.

The advantage of specialization can be counterbalanced by subsequent indebtedness -- deficits in the balance of payment which often appear with the framework of specialization since the coefficients of efficiency cannot be absolutely identical in the two countries. One

can solve this by changes in price which pose the problem of special prices inside the group of countries which are specializing or between only two countries. Within the frame of intrasectorial specialization one can, for example, distinguish the following specializations planned by Poland

- In lamination (specialization in contours) with Czechoslovakia
- In agricultural machines -- with Hungary and Czechoslovakia
- In machines designed for smelting, metallurgy, rolling stock -- with Czechoslovakia
- In chemical apparatuses -- with Czechoslovakia, Germany,
 Hungary
- In complete industrial installations (for production of cement; to export to USSR, Hungary, Bulgaria)

Therefore it is easy to foresee that specialization between the COMECON countries will progress. This is very obvious in, for instance, the export of machine and equipment goods:

Trefer to page 727

It is anticipated that in the period 1958-1965 Polish machine exports will increase 2.2 times; at the same time exports in these products to the USSR will be augumented 3.8 times. The same expansion is to be observed in the case of Czechoslovakia. Hence one can deduce that the "compartmentation" of foreign trade on the interior of

of the COMECON zone is going to grow in the future. The statistical data to be drawn from the five year plans of the member countries is clearly moving in the direction of this observation:

[see bottom of page 72]

belongs to the stage of intra-sectorial specialization. Passage from the intersectorial stage to the intra-sectorial stage has been marked, as was foreseen, by the dropping off of foreign trade between member countries of the COMECON. In 1958 participation trade with the socialist countries, in relation to total trade, clearly fell in all of the countries without exception. The most considerable drop off is recorded in Poland's case. Its trade with socialist countries fell off from 70 - 58.4 percent of the total. In the other countries the supplies intersectorial specialization (raw materials exported by Rumania, Bulgaria and the USSR for equipment goods exported by Czechoslovakia, then and East Germany and Hungary) nevertheless maintained indices above 70 percent.

/read table on page 737

In theory one can conclude that in the future there is a possibility of exhausting the advantages rising from intra-sectorial specialization on the inside of the COMECON zone. Flexibility of foreign trade, however, furnishes two other concepts of development in specialization. The first concerns common exports of complex industrial installations by a group of countries (inside the COMECON

zone) to other countries (expecially the underdeveloped countries).

The second depends on common exports of complex industrial installations by a group of countries (the socialist countries and the capitalist countries combined) to other countries. The desparity of a labor - intensive, b) capital-intensive c) material-intensive coefficients in the industrialized countries can make

such a combination in specialization hardly effective and profitable. In order to have this, the notion of specialization must be interperated with that of cooperation in an homogeneous economic formula.

B. Exchanges with the capitalist countries

The theoretical foundations of Polish trade with the capitalist countries are the same as those which exist between capitalist dependence:

countries. The function of attendants of foreign trade on internal economic factors remains the same, but the world of different variedables stands out since the differences the level of economic development between Poland and the capitalist countries are greater. If one concludes in the function:

- a.) Natural wealth (for an arbitrary constant)
- b.) The structure of production (for the coefficient of the technical level compared to a corresponding level in the importing country on the considered as a determinate variable;
- c.) Demand on the foreign market (with the coefficient of free trading of merchandise) considered as another variable:
- In the case of exchanges with member countries of the COMENCON the coefficients are not very significant since the level of technique is roughly the same and for the coefficient of free exchange the coefficient of planned development of exchanges is substituted (one can say that each coefficient = 1)
 - In the case of exchanges with the capitalist countries these

level

coefficients play a very large role. The difference in the minute of the technique causes the first coefficient to be institution difficulties of exchanges (bilateralum, long delays in deliveries, obligation of satisfing the current demand, customs tarrifs, contingent political preferences of one side and the other, ect.) make the second coefficient < 1, the same as the furst, (it would perhaps be preferable to fix the second coefficient as K-1 since the volume of institutional pation in trade between countries revealing different political systems must always be measured in ordinal numbers orginial members). The large reduction [?] of coefficients enows Slows down the full functioning of the variables b) and c) on the structure of Polish foreign trade with capitalist countries. Thus it is fun formed especially under the influence of the arbitrary constant. Folish natural wealth enters into Polish exports to capitalist countries in the form of raw materials and semi-finished products, especially agricultural and mining products.

[Refer to page 76]

Raw materials constitute about 95.7% of Polish exports to the the developed capitalist countries. The table is no longer the same for exports to the underdeveloped capitalist countries. The coefficient for the technical level is 21 here (which multiplies the impact on foreign trade with its trend toward industribilization in the structure of Polish production). The coefficient of industrialization is perhaps 1, and in the cases where they exhert political priorties even > 1. For that the structure of exports to these two

groups of countries is different:

(Please refer to page 77)

The table on page 76 proves that a large concentration of Polish exports to the capitalist countries exist. Products whose individual share in exporting surpasses 2% 54.5% of exports to the capitalist countries and 40.9% of the total exports. The geographic concentration is even stronger. The countries - taken one by one - to which Poland directs more than 3% of its exports company obsorb 73.4% of all exports to the capitalist countries. But it must be pointed out here that the geographic concentration of exports to capitalist countries is less than the total geographic concentration (the trend reverses for structural concentration by product). Since it can be roughly said that the geographic concentration is ruled by the coefficient of institutionalization and the structural concentration by product - by the coefficient of the technical level-, it can be deduced that the institutional differences are less (between Polish exports to the west and to all countries) than the technical differences (between the Western level compared to the Polish level and the average general level compared to the Polish level).

[Please refer to page 78]

The structure of Polish imports originating an capitalist countries is very different; machines and equipment share in it to the rate of 25.1%. Nevertheless raw materials figure very largely in it.

As in the case for exports, the distinction between the structure of imports coming from the developed countries and the underdeveloped

countries stands out America.

[See table on page 79]

The structure of Polish exports to the underdeveloped countries approximately corresponds to the structure of Polish imports from the advanced capitalist countries, while the structure of Polish import to the advanced capitalist countries corresponds to that of Polish imports from the underdeveloped countries.

Thus Poland is half way between the great economic transformations which have occured throughout the world. In the case of Polish imports, the concentration is inverse to that existing for exports:

products whose individual share in the total is lower than 2% in the majority and comprise 80.5% of the total.

[Cf. table on page 80]

ports and imports is very noticeable and not advantageous for the fluctuation.

The payment. In the case of fluxation of prices on the world market for a certain number of them or a certain catagory of products, the disastrous effects on exports (drops in export prices for n products) will not be compensated for by equivelent drops in the purchase prices of a number n of imported products (the proof will be furnished in later chapters).

C Exchanges with underdeveloped countries

The problem has been partially treated in the frame work of exchanges between Poland and the capitalist countries in order to demonstrate the basic differences which exist in exchanges between

Poland and each one of these groups. More over the Poland makes up a kind of exception in exhanges between the socialist countries and the underdeveloped countries. It entered rather late the system of specialization of exchanges and its exports of equipment goods are only now beginning to be admitted, actually sought apply, on the market of the underdeveloped countries. Fully industralized countries such as Czechoslovskia and East Germany already are sending a three to four times greater percentage of their exports to the market of the underdeveloped countries.

[Refer to page 81]

The exports of industrial products play a predominant role in the exchanges with underdeveloped countries, and in this respect the structure of exports of countries with a planned economy corresponds almost exactly to that of the capitalist countries. A single notable exception, chemical products: imports by the underdeveloped countries increased most in this area (in of 50% in the years 1953-1958). Their share in the general structure of imports by these countries doubles that coming from the socialist countries. The fact is not so astonishing if one considers the light development of the chemical industry in the countries of Fastern Europe (except in East Germany).

[Refer to page 82]

Polish exports to the underdeveloped countries have been very irregular. This irregularity is due to the failure of these markets to recognize Polish exports, to the structure of Polish exports which

and role of a commercial treaty. The callism of socialist country as exchanges was so strictly observed that often a sharp increase of exchanges country or even with a whole geographic or political zone depended on the signing of a commercial treaty or resulted from one.

Fluxations of Polish exports to the underdeveloped countries thus can be subjected $\int_{1}^{\infty} dt dt dt$ a political or institutional analysis rather than an economic analysis:

20000 C. 4

[See page 83]

The situation does not prevent itself in any other way if one analyzes it by countries for geographic zones. Often country to have a product the deliveries of which have been, for one reason or another, stopped or diverted from their normal Poland or other socialist countries sharply the volume of exchanges (for example, the export of Polish sugar to India in 1954). Thus often the decision made in Poland (or in enother socialist country to satisfy latent needs the actual demand of the population tropical products such as peper, tea, oleagintous substances fruits, also increases the volume of exchanges. decisions are not made regularly (which gives the volume of exchanges a fortuitous character) and often are not made simultaneously by the two contracting parties (the unbalance in exchanges). A striking example is furnished by the exchanges between Poland and India:

[Refer to page 64]

The same wegataing maybe observed in the case of exchanges with Indonesia.

In trade with the African countries the balance of payments regularly shows a deficit. These countries furnish Poland with raw material such as cotton, iron ore, copper and manganese ore and oldagometric substances. Polish exports to African countries cover only two thirds of their imports. This fact is explained, in our opinion, by the low capacity to agree on long term credits and low interest (2), for instances) or to grant economic aid by virtue of an assistance policy by Poland. The economically stronger countries have come to the point of facilitating these exports by a generate policy of payments, which is not the case for Poland, so that surplus balances of the more advanced countries with the underdeveloped countries

are counterbalanced by deficit balances of the less advanced countries (such as Poland) with the underdeveloped countries of Africa.

Refer to page 857

It seems that Polish foreign trade is becomming oriented instead toward a concentration of exchanges. Such concentration can have foundations which will be at the same time political and economic.

As regards Africa, the new aspects are the republics of Nigeria, Guinea and Ghana; for Asia -- India and Indonesia; for Latin America -- Brazil; for the Near and Middle East -- the U.A.R. and Iraq.

Taking into consideration that:

- a) Poland's balance of payments with certain underdeveloped countries are on the deficit side,
- b) Balances of payments of the advanced capitalist countries with most of the underdeveloped countries are on the surplus side,
- c) Polish exports include and will continue to include for a rather long period "capital" or "material-intensive" goods (e.g., complete industrial installations),
- d) The exports of advanced capitalist countries include "labor-intensive" goods (with a high degree of transformation),
- e) The balances of payments of the advanced capitalist countries with Poland are on the surplus side inside.

It will be possible, with the aid of mathematical methods, to construct a diagram of commercial relationships. This diagram is based on the coefficience of rentability (production costs -- sale

prices); the coefficience of effectiveness (comparative advantage of utilization of capital, raw materials, manpower in terms of the cost of capital, natural wealth, salaries, productivity in each country); the coefficience of availability (non-utilized productive capacities, stocks of raw materials, unemployment); is also based on trends in the balances of payments between various groups of countries. It is possible that such a diagram would be economically advantageous for all countries who participate in it and would bring social advantages to the underdeveloped countries while helping them to leave behind them more quickly.

According to our thinking, all the conflicts which effect the contemporary world can be divided into three groups: fights -- the opponents mutually try to destroy each other; games -- they tend to circumvent the adversary; debates - finally, at the end of which the advantage must be mutual. From the economic point of view alone, this last kind of conflict is productive. In foreign trade fighting takes the form of customs war, embargoes, quotas, etc., i.e. the advantage resulting from it is a for each party. Games take shape in various ways; effects of domination (discovered and exposed by M.F.Perroux), creation of particular commercial bonds and deformation of the economy of a weaker country having a lesser power of negotiation. The economic advantage here belongs especially to one party. Debates, by definition, pose the possibility of a rational decision leading to reciprocal economic advantage which can become the

moving force of action to follow if the principles of rationality resulting from the debates are put into practice.

Each group of conflict can be translated in economic and mathematical terms. For the "combat" group the mathematical principle applied is the "reduction ad absurdum", and the function utilized is not defined for X=0. For the "games" group, mathematical theory sets up a basis with the idea of balance between the two opposing parties and the result of the game is thus $X_a = B \times_b$, X_a expresses the advantage of party A,X2 that of party B, A and A representing the coefficients clarences, the power of negotiation, or simply the power of each party respectively. Since $A \neq B$, $A \neq A$, the apparent balance does not imply balanced advantages.

For the debates group a very much more complex diagram is necessary. We shall obstain from giving here the formula (the problem will be partially solved in the following chapters). In any case the coefficien f(x) = f(x) = f(x) give place to the coefficien mentioned above, which presumes that in place of trend f(x) = f(x) = f(x) max by f(x) = f(x) min, then f(x) = f(x) = f(x) and f(x) = f(x) max f(x) = f(x) and f(x) = f(x) max f(x) = f(x) and f(x) = f(x) max f(x) = f(x) max f(x) = f(x) which presumes that in place of trend f(x) = f(x) max f(x) = f(x) min, f(x) = f(x) max f(x) = f(x) max f(x) = f(x) where f(x) = f(x) is f(x) = f(x). It is

obvious that

for the "combats" group $X_a^{\bullet} + X_b^{\bullet} = 0$ for the "games" group $X_a^{\bullet} + X_b^{\bullet} \longrightarrow X_a^{\bullet}$ (ou X_b^{\bullet}) for the "debates" group $X_a^{\bullet \bullet} + X_b^{\bullet \bullet} = \max X_a^{\bullet}$

One wonder if $X^{***}_a < X^*_a$, if in this case party A were the loser, passing from "games" to "debates". Nevertheless, even if

X"'a < X"a (which is not proved at all), the phenomenan is of short duration. By introducing the long series it is beyond doubt that \leq X"a > \leq X"b ($\int = 1, 2, 3 \dots n = t_{emporal}$ Sequence) and party A must be the long term winner, thanks to action by the two possible trends which must intervene in the "games" system.

- The increase of coefficient "" to the detriment of coefficient " (case will party B begins to play the game with several partners, after having found new importers of his products, new creditors, new lenders, etc.).

These two trends tend to diminish (in the first case) and cancel (in the second case) the advantage X " of party A in the "games" system practiced on a long term basis but must not appear in the "debates" system.

Moreover, the "debates" system makes specialization in foreign trade possible, specialization for which the equation of advantages has been given in the preceeding chapter. Polish

D.: Foreign Trade With the new Economic Communities in Europe

Polish trade with the two large economic communities in Europe is ruled by different considerations in both cases.

/CEE/

As far as concerns the European Economic Community, trade carried out between it and Poland has led essentially to a lowering of Polish. coal exports which seriously threatens the volume of exchanges between the two parties. For the European Association of Free Exchange the danger for Polish exports residues especially in a lowering of Polish exports in food stuffs. The practical effect of the C.E.E. was exerted on the market up to 1960 through the decisions of the European Steel and Coal Community; it was particularly considerable in Polish deliveries of coal to the C.E.E. countries. The dropping off of coal exports to countries in the European Economic Community was nevertheless counterbalanced by the increase of deliveries to countries in the European Association of Free Exchange.

 $\sqrt{\text{Refer}}$ to top half of page 897

Inside the countries of the C.E.E. the indices for Polish exports of coal show a tendency to drop off even more acutely for exchanges with France and West Germany.

Refer to bottom half of page 897

The A.E.L.E. still not effectively in practice, the principles resulting from it cannot yet have any particular repercussions on trade with Poland. Once customs tariffs are lowered inside the A.E.L.E., three groups of products embedded by Poland to A.E.L.E. countries institutionally will be dangerously exposed to strengthened competition:

- a) Exports of bacon and ham to Great Britain
- b) Exports of coal to the Scandinavian countries

- c) Exports of timber to Great Britain.
- a) The British demand for Bacon is satisfied by exports

 from Poland (covering the demand to the rate of 14.3%)

 from Denmark (covering the demand to the rate of 65.8%)

The customs tariff on bacon and preserved pork imports from Denmark was lowered in the new commercial treaty between Great Britain and Denmark to 50% after 1 July 1960 and completely done away with after 1 July 1961. After variations in the origin of British imports brought about by the change of customs tariffs, Poland brought winas.

Between July 1960 and July 1961

on bacon: 1.5 million dollars

on ham: .5 million dollars

after 1 July 1961

on bacon: 3 million dollars

on ham: .7 million dollars

- Scandinavian countries and Denmark will agree to the preference of coal imports from Great Britain and Polish coal deliveries will be reduced.
- c) Imports by Great Britain of wood coming from Poland will be replaced by those from Finland. The deviations in Polish foreign trade which can be produced after the creation of customs unions in Europe are important.

They are particularly important for certain products, a large part of which are exported to AHLE countries such as wood (31.9% of the total) agricultural products (35.6% of the total), coal and coke (13.3% of the total), etc. In addition, it is to be noted that in the trade exchanges between Poland and the AHLE countries, a phenomenon of double concentration intervenes. The products exported by Poland to the AHLE constitute a great percent of the total experts of these products, but also the Polish deliveries to the AHLE are represented by some groups of products heavily threatened by competition inside the AHLE.

[Refer to page 92].

This double effect of concentration is likely to inflict grave losses on Polish foreign trade, and once variations in the demand for Polish exports are stabilized, it will be all the more likely since it is a question of large exports returns and a part of this revenue is paid for in convertible foreign currency which allows Poland to make its deficits good in certain strictly bi-lateral exchanges the granting credit by the contracting party is not possible.

Polish trade with A.E.L.E. countries is proportioned as follows: [Refer to page 92]

VI. Forcign Trade and National Income

The problem of the relation between foreign trade and the national revenue can be analyzed within the setting of the following considerations:

- Statistical relations between foreign trade and national revenue
- Problems of substitution between consumption and growth

as reflected in trade abroad .

In order to establish the statistical relations, the groups of countries presenting common characteristics (as regards the rate of growth in the years 1949 - 1956) will be examined.

Growth rate of the National Revenue 3.3 - 5.7

(Sweden, Yugoslavia, France, Italy)

Growth rate for National Revenue 7.4 - 10.3

(Czechoslovakia, Poland, West Germany, East Germany)

Since the two economic currents stimulate mainly the growth of the growth national product (industrial production and foreign trade) and since growth of the national revenue during the following period depends on the division of this product, one will establish these countries along with the national revenue—foreign trade relation, relation between industrial production and components of foreign trade on which the process of growth depends the most — namely, raw materials and capital growth.

[Refer to page 94]

The table of aggregate statistical relations shows that the order of connections between the growth of national revenue and that of foreign trade cannot be established mechanically, but only in terms the of/character of economic progress in the country. It can be seen that the highest ratio is that of Sweden (weakest national revenue growth) and East Germany (strongest national revenue growth). In most of the countries the ratio between foreign trade growth and national revenue

growth surpasses 1.5. Poland presents the only exception, where it reaches .5 only.

[See page 95]

Such a situation is explained if one divides the countries not according to the growth rate of their Mational revenue, but according to the motive role played by foreign trade in these countries. The countries presenting a very high ratio $\frac{\wedge}{\wedge R}$ or $\frac{\wedge}{\wedge R}$

are those whose economic activity depends on foreign trade. Belonging to this category are countries whose exchanges present a high degree of specialization which is is linked to a coefficient on a very high technical level (in relation to the world average).

The case is even clearer if one analyzes the foreign trade of these countries through industrial production. Here, too, the relations of foreign trade are translated by lower ratios than in the other countries. With Poland's entering the specialization phase, its ratio

is rising and reached .87 for the period 1956 - 1960 (or a value double that of 1949 - 1956).

Hence one can deduce from the above that in a country where the foreign trade rate of growth—national revenue rate of growth is lower than 1, foreign trade does not play an active role. In a country where the ratio is between 1.0 - 1.5 this role becomes important but not decisive. Above 1.5, it begins to be decisive and the country is becom-

ing oriented to the outside, its domestic combination of circumstances becoming part of world circumstances.

Problem of Substitution Between National Revenue and Foreign Trade

Two angles of approach to the problem are conceivable:

The first is with a view to strictly confined accumulation, the second is from the National revenue angle (which in addition to accumulation also includes consumption and thus constitutes an approach from the point of view of the economy of man).

If one considers the problem exclusively from the angle of National revenue, two approaches are possible:

- a) The machine furnishes an additional production with a value of \$100. For this production, c? combustibles or raw materials must be used. The value of these combustibles is \$110. The solution is simple. One stops working the machine and the national revenue rises \$10. (input 110 output 100.)
- b) The worker puts out extra labor and his product is exported with connect abroad. For the salary he buys a washing machine for \$110. The solution here is obviously simple; the worker is forbidden to do extra work. The \$100 owed for the product are not transferred abroad and the national revenue diminishes \$100. The effect of these two apparently analogous decisions is totally different. Thus it is necessary in order to analyze the effects made by exports on the national revenue to distinguish between the mechanical factor and the human factor. In its turn, the effect made by imports

___ 76 -

on the national revenue is neither direct nor obvious. It is true, for example, that a simple reduction of imports does not equal a corresponding reduction in consumption. The reduction of imports is considered a rectifying coefficient (effect of transmission) that we shall call

c. $c = b \cdot \frac{1}{p}$

or

b = degree of complement of the product coming from imports

p = its participation in the structure of consumption.

So it is clear that at the beginning of the industrialization was period, it a great deal easier than now to retire from Polish imports products going to consumption.

This leads us to take up the possibilities of substitution which are offered by foreign trade.

The problem can be analyzed on two different levels:

1 - Substitution Within Exchanges:

- (1) imports of consumer goods to be substituted by exports of consumer goods;
- (2) imports of capital goods to substitute for the export of capital goods;
- (3) exports of capital goods to substitute for exports of consumer goods;

- (4) imports of capital goods to substitute for imports of consumer goods;
- (5) imports of capital goods to substitute for exports of consumer goods;
- (6) imports of consumer goods to substitute for exports of capital goods;

2 - Substitutions in an Open System of Economy

- (7) between the imports of capital goods and local reserves of manpower (engaging local manpower)
- (8) between the imports of raw materials and local manpower (economy of imported raw materials thanks to a special extra effort).

In order to be able to effect rational choice, a certain number of coefficients must be established. Except for coefficient c (effect of transmission), it is necessary to establish the coefficients:

- e - Coefficient of relation between productive accumulation (investments) and the participation of production in the national revenue

$$e = \frac{C}{R} : \frac{A}{R} = C : A$$

where C = Consumption

R = Mational Revenue

A - Productive Accumulation

- The efficiency of productive accumulation

$$\frac{JN}{R} = \frac{J}{m} \cdot \frac{A}{R}$$

where m _ the productive effect of investments (number of units of investment necessary to increase the national revenue 1 unit) and

$$m \cdot A = d R$$

The relation between the level of consumption (C) and the growth of national revenue (d R) is first translated by the equation

 $\frac{\triangle \mathcal{R}}{c}$ = $\frac{m}{e}$, where e depends on the choice made between today's consumption and tomorrow's increase.

choice (1) therefore must be made in terms of the coefficient c, choice (2), in terms of coefficient m, choices (3) (4) (5) (6), in terms of the coefficient e.

In the case of exporting consumer goods, the withdrawal from the market of products A necessitates its substitution by product B. The introduction of B in its turn increases the purchase power of value B. C. where q is the multiplier of the returns. Coefficient q depends on the participation of salaries (a), on the accumulation (b) and the products which are found on the market, or

$$q = \frac{1}{1 - (a + b + c)}$$

The value of the product on the market in substitution for A is:

$$B_{q} = B + B (q - 1)$$

where B = pure substitute (in place of A)

B (q-1) = additional product (in terms of the new structure of demand)

If, in order to introduce () substitution product B on the market it is necessary to pay for S $_{\rm B}$ in foreign exchange, the returns

____ 80 ___-

0 19

Resulting from exporting product A must be compared not only to expenses Sp but to the volume of expenses in foreign currency:

Sp + Sp (g-1).

Another order comparison concerns the influence of imports on the national revenue.

The following symbols are submitted:

Q= Imports

R- National Revenue

Q= Participation in imports per unit in the national revenue

But on the other hand

Where C= consumption

S= accumulation (savings)

S= coefficient of savings

Q= qR =
$$9'(1-s) R + \beta sR$$

q = $(1-s) + \beta s = S(\beta - 9) + 9'$

where of coefficient of participation of imports in consumption

 β = coefficient of participation of imports in accumulation (savings)

Fig. the choices which can be carried out in open system of economy, choices (7) and (8), the following equations stand out:

MS = Y (condition for stabilizing the balance of payment)

 $M_{\underline{S}}$ \underline{qW} (condition for balancing the financial program) $V = \underline{q} \ W \ \underline{S}$

Declassified in Part - Sanitized Copy Approved for Release 2011/11/16: CIA-RDP80T00246A060800560001-5

Where:

Value of saved raw materials:

in the price of the domestic market..... W (zlotys)

in the price on the world market..... Y (zoltys)

The total affect of saved raw materials (effect made on wages).

..... qW(zlotys)

It follows that the course of trading world materials ($\frac{W}{Y}$) can be represented by the equation $\frac{W}{Y} = \frac{1}{q \cdot s}$

where o = multiplier, reflects the total affects of saving raw materials on wages.

The increase in the mass of products placed on the market is calculated in the retail price; $^{\dagger}_{\Lambda}$ can also be represented by the sum of prices for raw materials used in amortization and accumulation.

The prices of raw materials in foreign currency (MS dollars) can be recalculated in national momentary units (clotys for Poland).

$$MS \cdot \frac{1}{qs} = \frac{M}{q}$$

In view of the fact that

Declassified in Part - Sanitized Copy Approved for Release 2011/11/16: CIA-RDP80T00246A060800560001-5

a= participation of wages in the value of merchandise products

b = participation in amortization

c = participation in accumulation

$$M = a \cdot M + \frac{1}{q} M + b \cdot M + c \cdot m M$$

$$q = \frac{1}{1 - (a+b+c)}$$

This proves the necessity of introducing a multiplier in having recourse to the substitution of exported products.

So it is clear that:

- the saving of raw materials (in substitution for import materials) leads to the augmentation of personal income for members of the population;
- this additional income perhaps the necessity of essuring the satisfaction of the extra demand throughout the increase of production;
- the increase of production induces the multiplier effect in the populations income.

VII. Polish foreign trade and price structure

It has been mentioned in the introductory chapter, the system of prices serves in an planned economy as a tool for state economic policy without being considered from the point of the world market, and thus from the demands of foreign trade.

This disparty eliminated the usefulness of prices as far as

Abroad

measuring devices for the effectiveness of trading papered, and all the

83

more so since domestic market prices, while fluxating around nominal costs of production, did not reflect real production costs since they could not tie in with the prices of imported raw materials.

The tables on the next pages reflect the structure of prices in five European countries. Sometimes curious desparties in the structure of prices exist in almost all of the products.

Such a situation poses certain number of question for us. The Land in decision that a given system of prices reflects the given state of the economic situation, while the situation itself remains the function of the balances and imbalances which are the synthesis of the economy.

The following imbalances have been characterized for the economy of socialist countries:

- l. Libalance between general direction of the development of productive forces in the socialist countries (direction terrolating toward the development of heavy industry) and the needs resulting from accelerated raising of the standards of living (reflected by the almost constant deficit of consumer goods).
- 2. Libalance between the technical level (raised coefficients of technical efficiency) and economic level (volume and nonegoverity of production) of certain socialist countries capable of producing complicated machines and the low technical and economic level in the other countries. This wibilance is then reproduced in a structure of trade between developed and less developed countries inside the socialist market.

[Refer to pages 104 and 105]

- 3. The limits to according products made this way imposed by the Commentation markets.
- 4. Thbalance between the necessity of accelerating technical progress and the unorganized scattering of efforts in this task.
- 5. Unbalance between the needs for an accelerated development of production in all countries and the sparse natural resources in most of these countries.

As established by the governments, the price system did not offer a sufficiently strong stimulus to raise all mortages [sic] at the source of the importances. [bottom of p. 105]

However there are three possibilities in this respect:

- let prices be based upon production costs (and a more specific manner than now)
 - base prices on world prices
- establish a segmente system prices for the diments socialist market

System of prices based on world prices

The exchanges of socialist countries are carried out on a basis of world prices; the differential rents which fall to the countries who take advantge of states of imbalance are not done away with. The introduction of the same structure of world prices within national economy is liable to bend the economic structures in the desirable direction from the stand-point of international trade, i.e. mainly the

Josephine

saving of raw materials which are labing on the world market.

Economy in the expenses of labor will be hampered by the system of world prices which reflect neither the structure of production nor the degree of technique suitable in this country.

In these countries fixing price structures based on production costs is capable of guiding the economic structures toward economy in labor expenses (the economy of materials and raw materials will be hindered by the irronality of domestic prices which are not reflected to the material balances of the world market).

Hence one can conclude that the ideal demestic system of prices will include elements from the two possible systems instigating at the same time the economy of raw materials and the economy of labor.

The differences between world prices and domestic prices must be justified by the scarcity of raw materials, by the difficulties encountered in purchases aboard and by the difficulties in the balance of payments.

The main problem consists in being able to get out of a vicious circle - for example in the case where prices are bound to the world prices compared to the world

Raw materials A B

World prices for raw materials P1 P2

Production costs C1 C 2

and the counter currents:

 $P_1 > P_2$

Ct / Co

(42)

If one applies the principal of substitution based on rentability and advantage over the difference of prices, more of products B will be produced (for which the raw materials are bought at a lesser cost P_{Q}) and labor whose will take place. The economic affect of such a structure and such a decision substitution will be:

Economy of currency P1-P2

Labor waste C1-C2

To these uncertainties, which up to now remain the rule, are juxtapposed the basic distinctions one wants to introduce between the
prices of the means of production (prices on the domestic and planned
national circuit) and the prices for consumer goods (prices on the free
market).

The possibility for the existance of four price circuits is suggested:

Planned circuit

Free market circuit

Foreign trade circuit limited to the world market.

Labor circuit limked to the state of technology

Each circuit corresponds to a different goal: the planned circuit to the objective of industralizing the country, the free market circuit to the goal of consumption, make up from the structure of current and demand of the population, the foreign trade circuit with the goal of economy and raw materials and the labor circuit with goal of technical progress (economy of labor).

It is essential that the four circuits do not interfere (with each other). The interseption points are capable of creating a conflict of goals, all the more so since it is perfectly permissable to gauge the polarization of goals on the one hand (the objective of industralization approaches the objects of technical progress; the aim of consumption that of saving raw materials), and that estrangement on the other hand (the breach widing between the pairs of goals).

20MECON
Prices within the CCICON market

Prices fixed on products subject to exchanges between socialist countries are in principale based on the world prices. The method of fixing these prices has undergone two main changes.

- The first in 1950 at the time of the Korean boom. The prices within holocked and this state of affairs lasted until 1957. In 1957 in the aftermath of great political and economic upheavels, the countries with

a planned economy again allimed their price system on the world prices. Trade prices for a products/subject to exchanges between these countries thus are now fixed for the duration of one year at least. This practice is likely to undergo some new changes and with the delay of the valadity of prices being extended, as Mikoyan said (Pravda, 12 March 1958), "world prices remain a basis of fixation for the prices fixed on the socialist market but they are fixed as constants for long periods and the influences exerted by speculation and by the accompanying brutal fluxations can be inferred from them. This system of formation for prices on the socialist market is being perfected and adopted to the goals of a planned economy in the socialist countries. Nevertheless it appears that the system of prices in the COMECON be preceded preceded by the creation of a common currency were created, it would complete wertability. But this cannot be on the market or entablished before the technical level of production is appreciably the same for all the countries and before the liaisons resulting from specialization become closer. [See p. 109 for table]

The equalization of technical levels is at the bases of exchanges speculative admitting of more reciprocity and prevents movements between the countries (speculation becomes easier and easier thanks to interpate t

level of know-how common to a certain number of countries

(the leveling of the technological prime is most easily accomplished in the mechanical and chemical industries where a very efficient standard-ization can be developed. For these reasons specialization is beginning precisely in these two branches of the national economy). Such specialization bears a convertability of currency and, in the end, a universal momentary unit for all of the countries. But common currency can almost automatically create a system of prices detached from the world market within the countries' market.

Thembers of the COMECON. Another solution would involve action from top to bottom (i.e. by political decisions detailed from economic realitical) which is always susceptible to creating disturbances of an economic nature. It is nevertheless possible for the moment to create a system of technical coefficients (based on the size of the group to which belongs the product subject to exchanges and on the comparDative costs of the exporter country) with the view to stimulating the important of this product from the country from which the specialization in manufacturing the product is anticipated. This coefficients can modify the base world prices and must be based on the prespective principle, i.e. must relate to the specialization at the finish moment (at the end of a long period) and not at the beginnings of specializations.

Difference Exchange Rates

There are three possibilities for establishing a markercial re
lation between foreign trade prices and domestic prices in countries

with a planned economy, mainly: by the average prices, by the index

of returns and by the maximum price. Each one of these relations can Most Agrice) play its own economic role.

The Average Price

The average price price of exports $(K^{\left(\stackrel{f}{C} \right)})$ can be established as being the ratio between the value of all exports the domestic market price and the value of the same exports calculated according to the prices on the world markets (in foreign currency)

$$K^{(e)} = \sum_{j=q_j p_j}^{n} (k)$$

$$\sum_{j=1}^{n} q_j p_j$$

$$j=1$$

where p = market price

q =quantity exported

(k)= domestic market

(s)-world market

The average price of exports rose in terms of the increase in volume of exports. The maximilation and of economic advantages developed to the point where the value of exports at the price of the domestic markets F (e)= (1 qj pj (k) is lowest (average price K (e)is lowest at that point).

For imports, the rule is inverted. The average price of imports diminishes as a function of the increase of exports and the maximum-Edition of advantages coming from importing occurs when $F^{(i)} = \sum Q_i p_i$

Where $Q_1 = imported quantities (l=1,2...n)$

and when K (i), the average price reached its highest point. The condi-

tions were in advantageous development of foreign trade have come together when F (i) > F (e), i.e. when the average of imports is higher than the average of exports: K (i) > K (e)

If one applies the notions used increasely for the total quantity, it is possible to establish the total advantage for all commercial trade with other countries.

The total advantage is a function of two factors: the formation of the average price of exports and of imports and the formation of the volume of foreign trade.

$$R=V$$
 (i) K (i) $V^{(e)}(e)$; $R=V$ (K (e)

V re $V^{(i)}$ value of imports (at world prices) $V^{(e)}$ value of exports (at world prices)

Setting this equation into dynamics, the formula for maximumization growth of foreign trade in terms of its relaction can be obtained:

$$\begin{array}{c|c} R + \triangle R = (K \stackrel{\text{(i)}}{-} - K \stackrel{\text{(e)}}{)} V + (K \stackrel{\text{(i)}}{-} - K \stackrel{\text{(e)}}{)} \triangle V \\ \triangle R > 0 \quad \text{when} \quad K \stackrel{\text{(i)}}{-} & K \stackrel{\text{(e)}}{-} \end{array}$$

Thus the rentability of foreign increase when the marginal price of im
and

ports is greater than the marginal price of exports if it reaches its

maximum at the intersection point of the two prices.

[Refer to page 113]

let index of returns in currency

The net in returns in foreign trade will be ruled by another order constitutions, mainly it will put into calculations a clear distinction between the components of value of the exchanged products; the raw

__ 92 ___

materials and wages.

Such an index will take the form $K-K_m = K_{\pm}$ $D-D_m = D_{m}$

where K=total production costs of the product

 $K_{\rm m}$ -cost of raw materials used in production which otherwise could be subject to export.

 $K_{\mbox{\scriptsize t-}} price$ of transportation of raw materials $D_{\mbox{\scriptsize m-}} value$ of raw materials, accessed at world market prices

 D_{m} -revenue (net) of foreign currency

Derevenue (total) of foreign currency

Once the socialist country admits foreign trade is capable of playing the role of stimulas in the process of growth, the problem raised is to know to what extent it contributes to the growth of funds of "accumulation" (of saving, to speak Keynes' language) after which the increased reproduction can be affected (to speak Manufist language).

The index for accumulation, thus is presented in the form of a ratio between net returns of currency, lowered from the value of the goods and services consumed by the population, excessed at prices of the world market, and the total revenue of foreign currency. This index then reflects the ratio between foreign currency returns and expenses made, mainly for remunerating the labor employed: $A = \frac{D_n}{D} = \frac{D_n}{D_n}$. 100

P represents the ratio between the retail prices on the domestic market (for products and services bought by the population) and the world

--- 93 ----

prices.

In the conditions the ratio
$$\frac{K_T}{\Lambda}$$
 $\stackrel{}{\swarrow}$ $\frac{P}{n}$

expenses of the country are less than the net returns; in the inverse situation of order K_{+} D_{n} L they are larger.

The surplus of P in relation to expenses $\frac{K_t}{D_n}$ can then be considered as accumulation and reflects the initial share of foreign trade in the process of the country's growth. Maximum prices.

The middle or average price gives an idea of the existance of a maximum price

(or limited price) beyond which commercial exchanges will not be desirable. The net index of returns in foreign currency furnished the method by which it is possible to establish precisely the [world?] market price for each product taken separately. A method remains to be found by which the limited price may be established. The range of possible operations lie then between the net index of revenue in foreign currency and the amount of the limited price.

Such a course can take the form:

$$K_{nm} = (1-a).100$$

where a = ratio between the increase of salaries paid out for production of consumer goods and the increase in volume of the consumer goods derived due to these expenses.

s = raw materials (in dollars) contained in each unit of value (taken for example as 100 zlotys) of the growth in volume of goods. The coefficient "a" can thus be obtained in a simplified form by the following calculation:

= wage funds in the branch producing consumer goods total value of merchandise on the market in zlotys

The coefficient "s" can be obtained in the following manner:

in the total value of merchandise total value of merchandise on the market in zlotys

To establish the exact amount of the limited price for Poland, it suffices to find numerical data.

It will be done for the consecutive years of 1957 and 1958.

$$a_{58} = \frac{149.14 \text{ billion zlotys}}{200.6 \text{ billion zlotys}} = 0.237$$

$$s_{57} = \frac{1.98 \text{ billion dollars}}{191.3 \text{ billion zlotys}}$$
 . 100 = 1.04 $\frac{\$}{100}$ zlotys

(in view of the fact that 20% of the raw material escape our calculations, we are prompted to raise the coefficient "s" by 20%

The limited price for these years is

$$\frac{\text{Lim}_{58}}{\text{lim}_{58}} = \frac{(1 - 0.237 \cdot 100 - 69 \text{ zlotys})}{1 \cdot 11}$$

The abrupt change of the limited prices between 1957 and 1958 is easily explained by the lowering of raw material prices on the world market and the raising of retail prices on the domestic market in Poland.

The limited price plays a double role in the calculations pertaining to foreign trade:

- It fixes the price limits of raw materials in the country in relation to their prices on the world market;

- It fixes the limits on the transformation costs in exported production. In the case where the remuneration of labor spent for each dollar of returns exceeds the amount of the limited price, carrying out such exports is contrary to the financial interests of the country (the salaries at that time will exercise on imports a constraint, the extent of which would exceed the amount of returns.)

As regard) transformation costs in Polish exported production in 1959, an average is established for the large groups of products as follows:

Group I: Machines, equipment goods, means of transportation 1 dollar

Group II: Combustibles, raw materials, industrial materials

23 zlotys

Group III: Foodstuff and agricultural products

64 zlotys

Group TV: Consumer products of industrial origin

69 zlotys/ 1 dollar

Average of the groups:

35 zlotys 1 dollar

In the fourth group of products, exports are found just below the ceiling established by the limited price.

VIII. Marketability of trade

The general problem here is to be able to justify the following counter currents:

- the growth of production is accompanied by a reduction of production costs;
- the increase of exports is accompanied by a lessening of their effectiveness; marketability;

Taken as a separate effect, these conclusions seem justified. The growth of production acts mainly on the reduction of fixed costs (general expenses etc.) leading

Leading to their division over a larger number of units of production, and in this way, lowering the cost per unit, the increase of exports leads to exporting products with less and less marketability (it is customary to begin by exporting the most marketable goods and then follow a line of increasing marketability).

Nevertheless there remains one question which is difficult to answer.

- Will the costs be raised or lowered if one continues to increase exports through increasing production? Are the economic effects going to follow the diagonal of the parallelogram constructed on the two counter currents just explained?

In order to be able to study the second effect separately, the following diagram has been set up: [Please refer to page 118]
On the X axis: the value of exports or imports is measured ...
On the Y axis for exports: costs of exported production in zlotys spent one dollar in return for imports; quantity of zlotys obtained by

for the sale of merchandise imported for one dollar;

Curve E: Function of the cost of one dollar (in exports), dependent on the volume of exports;

Curve I: Function of returns for one dollar of imports, dependent on the volume of imports.

Curve I can take different forms in terms of the situation on the domestic market. For example, in the case of market saturation it will take the form I₁; in the case of a not completely satisfied demand, it will take the form I₂, and even if the State wanted to resort to clearing the market by the policy of high prices for imported articles it could take the form I₃.

What might be the consequences of each one of these three forms of Curve I?

Suppose the value of exports is equal to the value of imports and equals OP. To these values correspond the marginal indices of exports (K_{γ}) and imports (K_{γ}) .

With the rise in volume of exchanges, the index for exports is going to increase (which is not equivalent to being "better") by moving to the right on E. The simultaneous increase of imports will move the import index the length of one of the I curves in terms of the domestic situation of the country (it is going to lower by moving on I curve, it is going to increase if following I curve and will remain unchanged on I curve).

The intersection point of curve E with one of the variables of

curve I will fix OA - the volume of exports and imports which will produce an equalizing of the indices for exports and imports at the level of K_{rl}. The intersection point depends nevertheless on the form of curve I: with the curve descending, the point will be placed nearest point O, with the curve parallel to the "X's", more to the right with the curve falling, it will be moved very close to the right. The increase in volume of exchanges beyond the intersection point of curves E and I (i.e., finite point A, A2 and A3 in terms of the form of curve I) will produce disastrous effects for the national economy. Each additional unit of return (in foreign currency) for exports will entail higher costs (in national currency) than returns (in national currency entails on the domestic market) coming from the sale of imported products and paid for with the same unit of foreign currency.

The main difference introduced here in relation to the preceding considerations is produced by State policy. The State in the planned economy has full power to fix Curve I in terms of the situation on the market but also in terms of its own goals, even if provisional. Thus, it will be able, up to a certain point beyond which serious imbalances are apt to be provoked (especially stocking of imported products, in the case of choosing curve I to be black market for imported products, in the case of choosing curve I, to decide on the marketability of foreign exchanges by a rational setting of prices for imported products on the domestic market.

IX. Problems in the Ealance of Payments

The problem of the balance of payments for a country with a planned economy is difficult to resolve theoretically and to bring constatistically, in view of the fact that:

- If the theory of foreign trade for the country with a planned economy is still non-existent, it is nevertheless practiced. Apparently there is a contradiction in logic which is not without reminding of M. Jourdain. The wheory of foreign trade is practiced in the East since the practice of foreign exchanges is a fact. The theory of the balance of payments is not practiced in the East, since the practice of the balance of payments is unknown. The balance of payments is considered as having an exclusively statistical but not economic content. This attitude goes back to the time when the independent and even driving role which foreign trade could have played was denied. Inasmuch as the balance of payments was considered as accessory to foreign trade and foreign trade has a variable related strictly to the process of industrialization and determined by it, the balance of payments concerned the East only within the framework of bookkeeping considerations.
- The balance of payments is not published in the East, which is even admitted officially in the Economic Dictionary (edited in Warsaw, Poland; 1957, see page). This situation has been evolving slowly these last years with the appearance of three new economic elements:
- The bilateral system of payments in foreign trade, practiced within the framework of bilateral agreements

and concluded by countries with a planned economy, begins to be overtaken by the demands of modern economy;

50X1-HUM

- passage from the forced industrialization stage to that of spontaneous industrialization has not been accompanied by qualitative changes in foreign trade, which has created a financial "hole" in payments. This "hole" had to be filled in by the aid of funds coming from outside and not integrated in the foreign exchanges (the funds previously granted were equalizing funds maintaining the balance in the bilateralism of exchanges and surrounded by these bilateral accord agreements);
- such (3 the agreement gained by Poland on payment for the transportation of merchandise which is carried out by transversal foutes (the merchandise transported by railroad between USSR and East Germany and Czechoslovakia) and longitudinal routes (the merchandise exported or imported by Czechoslovakia by the Polish port of Szczecin) across the nation. These elements are certainly capable of furnishing the balance of payments with an economic content in the same way as the new stage of economic development furnished economic content to foreign trade. A first step has been made in the establishment of an efficient system of international payments. A treaty of multiple clearing was concluded between the member countries of the COMECON on 22 June 1957. The system established provides for a simple compensation of the settlements in balances of payment between the member countries to be carried out in the following manner:

[Refer to page 122]

The principal object of this treaty is to make the balances mutually compensatory without resorting to heavy outflows of currency. Nevertheless, while remaining multilateral, the compensation is not automatic; said otherwise, it can take place only in the setting of an agreement expressed by the two parties. This method of proceeding thus only partially exhausts the problem of payments between the member countries of the COMECON but it does not solve any of either the problem concerning more general multilateralism or the problem of payments between the two monetary blocs (European Union of Payments - countries of the CONECON) or the three geopolitical blocs (advanced capitalist countries - underdeveloped countries - countries with a planned economy).

The system of compensation of payments between the two monetary blocs can be set up in the following fashion:

- First possibility: multiple compensation of settlements between all countries belonging to the two blocs.

[Please see page 123]

The creation of such a system demands the setting up of precise principles of periodic compensation of settlements which would result in bilateral relations between countries with a certain limit as a starting point: the surpluses or deficits are the subject of credits, above that limit they must be paid for either in gold or in hard currency, etc.

Second possibility: The creation of the union which would be responsible for settling the balances which result from exchanges between Western European countries and Eastern European countries, i.e., with the

exclusion of bilateral settlements in each zone. [See top of p. 124]

In adopting a similar system, the coutries must have the possibility of settling surpluses or deficits which come exclusively from trade with countries of another monetary or geopolitical zone. The surplus balances originating from trade in each zone cannot be included in it due to their reducing the elasticity of such a system of settlements.

3rd Possibility:

From the periodic settlement of the total balance of payments between the two zones a multilateral compensation must result arising from trade with the other zone and the rutual presentation of net balances to be paid for.

[Refer to bottom of p. 124]

It is certain that the establishment of an effective system for balancing payments has the potential to give back the active role it used to possess in trade.

- Weaknesses in the Polish balance of payments

The balance of payments in Poland since 1956 has been found exposed to the constant danger of very serious imbalances; the weak points in the structure of the Polish balance of payments at the same time as the dangers which threaten it can be arranged in 3 main groups:

- Weaknesses and structural dangers arising from an imbalance the the group of food stuffs and agricultural products;
- Weakness and accompanying dangers arising from the prices of raw materials on the World market:
- Weaknesses and dangers in orientation arising from an excessive con-

Declassified in Part - Sanitized Copy Approved for Release 2011/11/16: CIA-RDP80T00246A060800560001-5

centration of exports in certain products dispatched in certain directions.

a. Effects of structural imbalances on the balance of payments

The most perceptible structural imbalances affect especially the group of food stuffs and agricultural products. In principle, the rising demand for cereal imports in Poland (the causes have been treated above already) must be balanced by the rising export of meat. But as astonishing as it may seem, such a balance existed at the time of forced industrialization:

___106 .

1950 - 1955

Grain .

Meat

Average imports per year:

Average exports per year:

665,500

tons

77,200 tons

Annual worth: \$50,300,000

Annual worth: \$54,000,000

but ceased to exist in the next period:

1956 - 1958

Grain

<u>Meat</u>

Average imports per year:

Average exports per year:

1,390,000 tons

97,300 tons

Annual worth: \$91,500,000

Annual worth: \$70,000,000

The balance of the total balance in this group changed from a state of

high surpluses to a state of deficits: Total balance of exchanges in food stuffs and agricultural products
1950 - 1955

Imports

Exports

Balance

\$560,000,000

\$890,000,000

___+\$330,000,000

1956 - 1958

Imports

Exports

Balance

\$500,000,000

\$420,000,000

- \$80,000,000

_ 107 ____

b. Effect of Imbalances Contingent on the Balance of Payments

World circumstances which effected a reduction in raw materials beginning in 1957 had strong repercussions on Polish trade. It is useful to recall the extent of this drop-off. Of the 8 main export products in Polish raw materials, the price drop affected 5.:

```
coal (the price of American coal dropped 43.5% in 1957)

bacon (the price of Danish bacon dropped a few points)

laminated products (the price dropped 25%)

zirc (the price dropped 40%)

timber )

eggs

(the price did not drop)

eggs

coke )

sugar (dropped)
```

In short the summary index of prices for the 8 exported products underwent the following variations:

1953 - 100 1956 - 152 1957 - 106

Stated otherwise, between 1956 and 1957, the index dropped 30%, which implies a loss in export returns on the order of \$230-235 million - the loss of which through the reduction of coal prices was \$200 million. The price of coal has again dropped in 1958 eight dollars per ton as the compared to 1957 and in spite of increased export of 2,287,000 tons of

```
coal in 1958, the returns dropped in 1958 18.5 million
pared to 1957, or $220,000,000 as compared to 1956.
     The drop-off in imported products has not been as considerable and
could not balance the losses in exports.
     For the twelve main import products of Polish raw materials,
the situation was as follows:
     Cotton - prices rose 5%
     Rice
     Cocoa beans
                         - rise in prices
     Tobacco
              drop ( July 1957 - $701 per ton ( December 1957 - $640 per ton
     Nonferrous metal)
                       . Trend toward price stability
     Leather
     Caffee
                        Drop of 20%
     Wool
     Iron ore
                        Drop of a few points
     Petroleum
                        The prices dropped slightly
                        The prices dropped slightly
     Wheat
The summary index of prices for the 12 imported products underwent the
following variations:
    1953 - 100
    1956 - 105
    1957 - 99.1
```

Stated otherwise, between 1956 and 1957, the index dropped 5.6% which implies a profit of \$ 25 - 35 million. To this, the larger profit on the lowering of maritime freight costs on the order of \$45 million must be added. In short, in 1957 (as compared to 1956) the prospective loss rose to \$220 million, the prospective profit to only \$70 - 80 million. The result of this potential imbalance showed a very considerable net loss of \$150 million.

- c. Possible effects of the "directional" or "orientational" imbalances on the balance of payments.

One can anticipate that the trade balance of Poland with the countries having a planned economy will certainly show a deficit in the years 1951 - 1965. Nevertheless, the deficit trade balance ought to be balanced by transfers due mainly to railroad and maritime transit which is carried out on Polish territory. The "directional imbalances could be more dangerous in Polish commerce with the countries of Western Europe. The very high concentration of certain export products exposes the balance of payments to very serious dangers in case of a dropping in the value of exchanges (or in "summary prices"). Thus, for example, the case of a 5% price drop, the repercussion on coal (which makes up 25% of the exports to Western Europe) will bring about a 1.25% lowering of the total revenue; on bacon a drop of .32 %, etc.

[Refer to page 129] When exports and imports are balanced, a lowering of prices mind not bring about great difficulties in the balance of payments. Nevertheless in the case of a deficit balance, each lowering of engenders a considerable deterioration. Thus, for example, a 5% reduction

__ 110 ___

of export revenue in the condition of a deficit balance (1958) equal to 16.5% of the value of exports brings about a 33.3% increase in the deficit.

The theme can be advanced but the balance of payments is in danger when concentration surpasses 2% of the exchanges (this is the case where about 55% of the exchanges with Western Europe) and for the exchanges with the countries whose "directional" concentrations surpasses 5% (about 40% of the exchanges with Western Europe).

The degree of concentration is presented in the graph below: \sqrt{R} efer to graph on 1307

If one considers the disastrous effect of the price drop in exports on the Polish balance of payments, one must also consider the effect which can be exerted by the rise of prices for products imported by Poland from countries outside of the COMECON zone.

The table which follows \sqrt{see} page 1317 is based on the same principle as above.

The seven products in the table represent 34.6% of the import total. So in this way when a 20% price rise is produced, the expenses hastily figured out rise 6.92% (the same volume) causing the deficit in the balance of payments to increase.

Obviously one can reverse the analysis and study the effects of price rises in exports and price drops in imports on the Polish balance of payments.

The trend is becoming oriented in another direction, nevertheless (which is proved by the statement of profits and losses above and the analysis of the dangers and "directional" weaknesses developed in the

gls

line of price trends for exported and imported raw materials by Poland.

The table would be incomplete if the considerations of foreign disconnected trade and the balance of payments covered only economically desertable elements. A whole sphere of human relations which is beyond our field of analysis can be included and and in it would be namely the following problems:

- absence of a clear <u>concept</u> of the role of foreign trade in the planned economy, precise
- absence of a method of planning foreign trade and at the same time a method based on the principle of economic rationality,
 - absence of experienced <u>leaders</u> in exports and imports,
- weak penetration of ideas bearing on foreign trade beyond those of a thing of technicians in foreign trade who stand out between the sphere of international trade and that of the national economy.

Such a situation appreciably hinders the development of foreign trade. There are two aspects of this particularly:

- l the absence of concept and method contribute to widening the
 gap between the <u>reality</u> of foreign trade and the economic <u>necessity</u>
 which rationally stands out;
- 2 the absence of experienced leaders and of the penetration of ideas in men's mind contributes to widening the gap between the reality of foreign trade and the possibilities which are offered on the world market.

gls

If the "human" factor played unfavorably in the process of Polish believed foreign trade restructure, the "time" factor intervened in the half of the structure. An appearing saying that time is a means invented to prevent happenings occurring all at the same time has rarely been truer than in the case of Polish foreign trade which has at least if three major facts to be noted in its favor, facts which they had roccurred at another moment could certainly have played greatly to a disadvantage:

- 1. That the price drop in raw materials exported by Poland occurred at the moment when they had ceased to play the fundamental role they held in the Polish balance of payments, i.e. in the beginning of the intrasectorial specialization in the beginning of the international exchanges resulting from it.
- 2. That the acute imbalance in the Polish balance of payments occurred at the moment:
- a) of relaxation in world politics and of hope placed in the west for liberal prospections and for independence in Polish foreign and domestic policy due to Gomulka's election to the post of First Secretary of the Party (thus the granting of American aid).
- b) at the time of the danger of disintegration of unity in the Communist Bloc threatened by the U.S.S.R. after Gomulka's arrival to power in Poland and after the outbreak of the Hungarian revolution (which caused the payment by the U.S.S.R. of transit expenses across amassed Poland due over a long period as well as the reimbursement of the mast

differences in the price of coal exported by Poland to the U.S.S.R. coming from the disparity between the world price of coal and the price paid by the U.S.S.R.

3. That the decisions of the COMECON with regard to the introduction of intense intrasectional specialization between the member countries were made after the basis of Polish industrialization had been established. These decisions, if they had been made at an earlier date, would have been likely to solidify the structure of Polish foreign commerce during its stage of intersectional specialization limited one field (as is perhaps the case in Rumania, Bulgaria, Albania).

This reasoning is developed not to enrich the economic history of Polish foreign trade but for a completely different goal. The present study show the evolution of foreign trade from its storage of light development to its stage of advanced economic development and as such it can serve as useful information for countries on the way to becomming developed. These countries must realize that the "time" factor does not always work to their advantage as was the case for foreseeing Polish foreign trade; nevertheless means of / and avoiding unfavorable economic events exist. The lowering in prices of raw materials, often inevitable, perhaps can be counterbalanced by the development of the transformation industry; economic aid coming from both sides is possible only in certain political situations which are neither frequent nor long-lived, and finally adherence to economic

gls

unions can sometimes be premature.

Credits and Aid From Abroad.

The Polish balance of payments, as could be expected, has suffered below damage for a few years. The deficit in the trade balance was:

 \int See middle of page 1347

In order to remedy such a situation it was judged absolutely essential to call for foreign credits. The credits which have been granted Poland can be differentiated as to their economic character in the following manner:

have been granted Poland for a period lasting 25 to 40 years in three successive issues:

- I. Issue agreement on 7 June 1957 (supplemented on 14 August 1957) for the sum of \$95 million.
 - II. Issue agreement on 15 February 1958 for the sum of \$98 million
- III. Issue agreement on 10 June 1959 (supplemented on 10 November 1959 and 11 February 1960) for the sum of \$103 million.

Total \$296.3 million

After receiving these credits Poland was able to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultural products and raw materials to buy from the United States agricultur

gls

- Credits of the economic "advancement of trade" kind.

Such are the credits granted Poland either by installments on future Polish deliveries or simply by credited deliveries.

They present themselves in the form of credits from the member countries of the COMECLN granted Poland aparticipation in Polish investment projects. Above all it is a question of credits granted or to be granted by Czechoslovakia and by East Germany. Thus for example in May 1958 Czechoslovakia granted Poland a credit of \$62.5 million, part of its participation in the development of coal mining production. Similar credit was to be alotted for the development of the sulpher industry, etc. This combination of three kinds of credit granted to Poland permitted it temporarily to fill in the gaps in its balance of payments. Inside the country the effects of foreign credit difficulties the various groups taking part (x) surpassed the national revenue produced from the market.

(x)

Statistical treatment of foreign trade in the national accounting system

In all the countries with a planned economy, the activities of people whose employment is connected with foreign trade -- just as all trade those whose employment is connected with the domestic. -- are totaled

in production. But the statistical treatment of the balance of payments itself (imports and exports of merchandise and "productive" services presents an intricate problem which depends mainly on the special characteristics of price structures in these countries and absence of a single rate of change effectively relating domestic prices to foreign prices. (In Czechoslovakia and Poland, at least, the productive services are in principle included in the balance of invisible transactions and it seems that, for reasons of a practical nature, certain "non-productive" services (transportation of travelers, for example) can also be included in it.) Now, all countries have not solved this problem in the same way. In all the countries of Eastern Europe, except East Germany, the example consists of determining for the objectives of national bookkeeping the surplus of exports or imports, first the price in currency.

In order to convert inter domestic prices the marketable surpluse of exports or imports established in foreign currency, the difference between the domestic value and the value in foreign currency of the total exports (or imports) is used and the surplus thus accessed is considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the difference between the considered as giving the proper amount of the dif

However, for the total domestic expense in domestic prices (consumption by private individuals and by groups and accumulation) to be identical to the domestic products (or groups and accumulation) reduced by the surplus of exports (or increased by the surplus of imports), before calculating the total indicating the agross-national product, the sum of net products in the various sectors of domestic production must be corrected so as take into consideration the profit or loss of resources in domestic prices which results from a precise balance of exports and imports and foreign currency prices (according to the marketable value of which ever of these two amounts—profit or loss — is the lower). This corrective of prices is called "account of the price differences in foreign trade" in Polish bookkeeping system.

The numerical example below will offer an understanding of how this corrective is effectively calculated. [See top of page 135 b.]

In this case there is no curries or deficit in foreign trade in foreign currency prices; consciently there will be no differences in the account between the "gross national profit" and the "available national revenue". The difference (75) between the value of imports (225) and that of exports (150) in domestic prices is treated in the total as a profit for the economy of - for the national profit - resulting from the difference between the ratios of domestic and foreign prices for exports and imports.

In the calculation of the domestic product, 75 will figure as a distinct entry. Most often, of course, foreign trade in foreign currency prices does not balance;

[Refer to the bottom of 135bend page 135 c]

In each of the above cases, the third line indicates the ratio between domestic policies and the prices of foreign trade for exports as well as imports—the ratio which serves as a conversion coefficient.

If one considers the level at which marketable imports and marketable exports balance (each being accessed in foreign trade prices), one affirms that there is a "level" of 75 units in exports and in "profit" of 150 units of imports due to the differences in price so that the net profit — which must be included in the gross-national production is 75. A marketable surplus of exports with a foreign trade price of 25 remains which converted into domestic prices by means of the coefficient above, becomes 50 in the domestic price; this difference is

OR to a l then accounts as a surplus of exports of this amount. Thus, the marketable surplus of imports in domestic prices, which is 25, is split up, becoming on the one hand 75 in the "account of price differences" - a figure which is entered in the account as Liverine Frederich adding to the group product - and on the other hand 50 which is the surplus of exports to deduct from this title to arrive at the "distributed revenue" or available revenue in the country. Moreover, the fact of that was put on the books proming 1991 Absolder 1993 the "account of price differences" does not allow eliminating the contridictions which exist in the price structures of these countries. At the very most, by doing this one succeds in making, in a certain sense, the total value of foreign trade harmonize with the internal structure of prices. The "profit" or the "loss" in this FIETITI- S $\operatorname{account}_{\Lambda}^{\nu} \operatorname{can}_{\lambda}$ entirely fictious according to the ratios of domestic prices corresponding more or less to the relative actual costs. In addition, the profit or loss appearing as a result of foreign trade is a function of its structure since the import of merchandise subjected to the tax on the turnover (most of the consumer goods) or the export of merchandise not submitted to this tax (investment goods) tends to increase the Liverschi This practice had as a particular consquence profit and alwaysely. Napparent making the appearant increase of the domestic product 🚐 strongly A fluctuations on affected by marked fluxations in the level of foreign trade or by changes in its structure. The account of price differences is presented in Poland as follows: see page 135 d, and top of page 136.

Such a situation cannot go on indefinately. In the five year plan

of 1961-1965, it is suggested that the increase in the national product must greatly surpass the increase in distributed national revenue, the ratio between these rates of growth of necessity being: [see middle of page 136]

From the ratio between these figures, it is easy to conclude that in the past the fruits of labor (distribution of the national revenue) national income produced were greater than the effort (greatenational-product) and that the situation must become reversed in the future (if one expects part of private consumption in the national product to remain unchanged, which corresponds roughly to reality. It was 66.7% in 1960 and will be 66% in 1965). It is obvious that such a dispersion of ratios quantity of labor spent in the two successive periods and liavolume of consumption realized ble to affect in a certain way the inclination to work and even the inclination to create

(input of moral effort output of material and moral results).

(input of physical effort

output of material results)

This can prove that foreign trade in a country with a planned economy can have just as large a scope as in a capitalist country.